# Recruiting the best

*Professor Anders Malthe-Sørenssen*
*Department of Physics, University of Oslo*
*Director, Center for Computing in Science Education*
*Director, Center for Interdisciplinary Education*

**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

CompSci is a MSCA COFUND 5-year program with 32 PhD positions of 36 months each with two calls over the program period.

The program includes 37 supervisors as UiO, 34 partners across sectors, and has 48 projects (of which 32 will be funded).

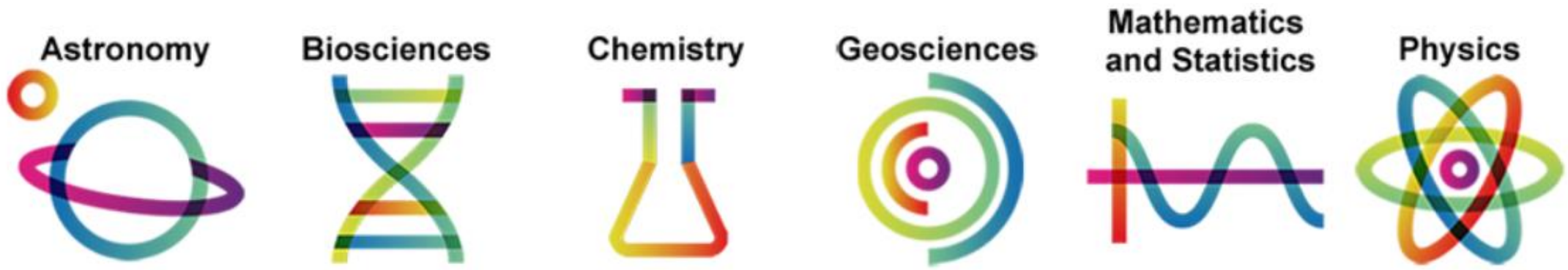
The overall budget of COMPSC is €8,623,872, of which € 2,603,520 (30%) are requested by the EC and 6,020,352 (70%) are covered by UiO.

**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Vision

*Train a new generation of computationally proficient researchers across the disciplines in mathematics and natural sciences*




**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Vision

*Train a new generation of computationally proficient researchers across the disciplines in mathematics and natural sciences*

**Institutional goals**

*Develop a pilot for a cohort-driven PhD programs*

*Systematic training in transferable skills in PhD programs*

*Strengthen our cross-disciplinary community*

**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Selection process

**Call 1**
Jan 3, 2021
15 PhD students

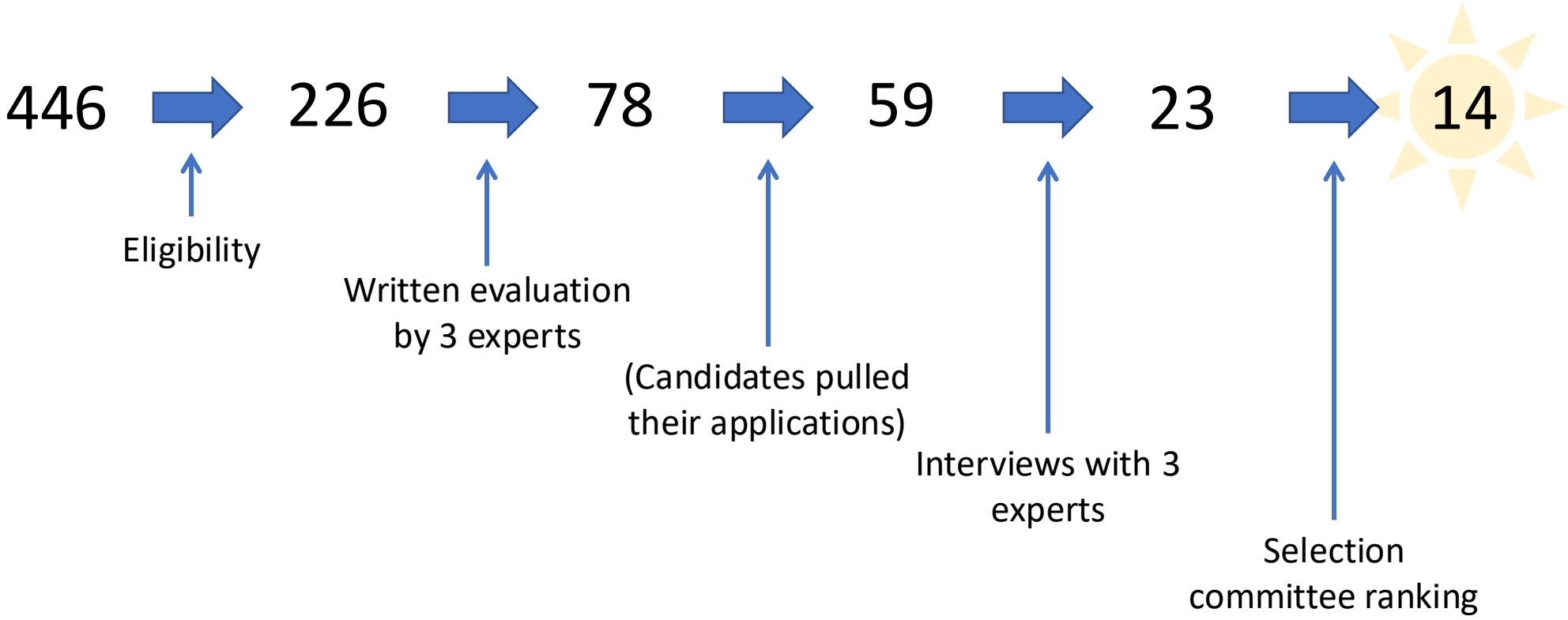
**Call 2**
Feb 1, 2022
15 PhD students

**Call 2b**
Jun 1, 2022
1 PhD students

**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

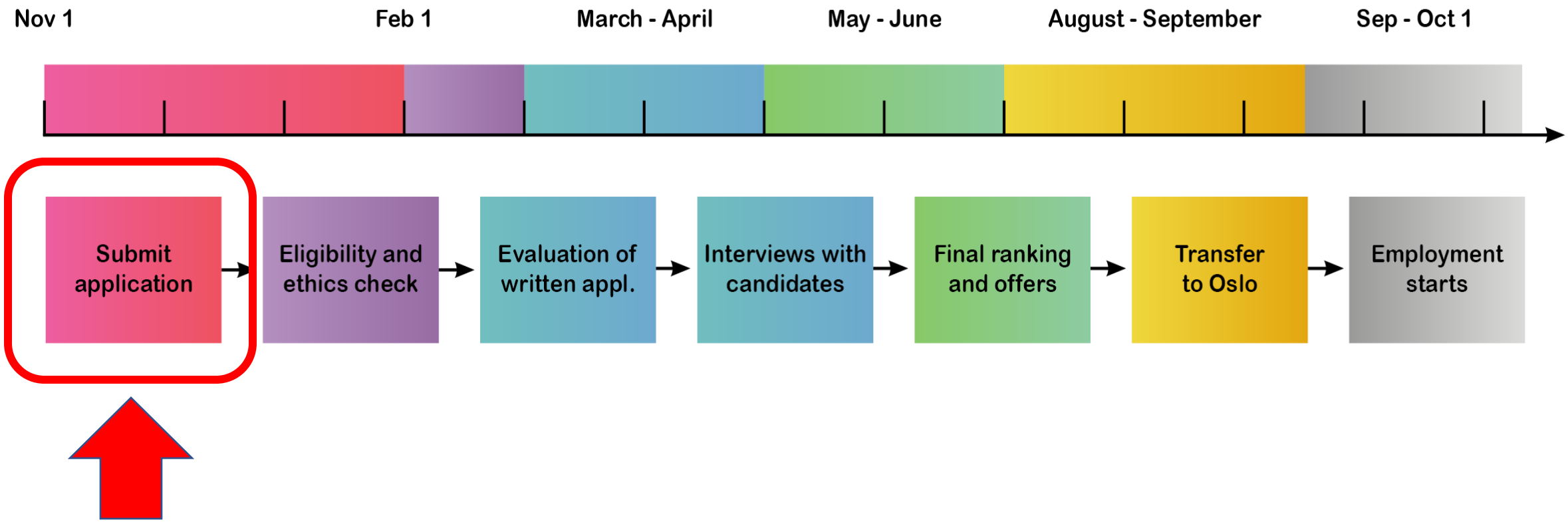
# Selection process (Call 2, Feb 1, 2022)




**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Selection process




**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Application process

**Apply through UiO portal**

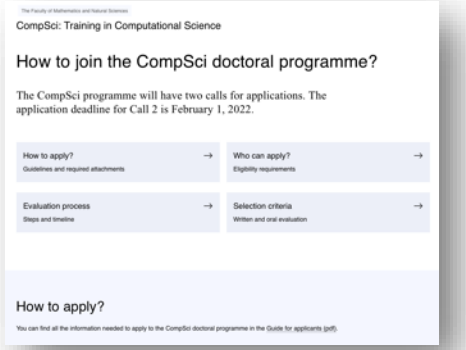

**Application contents**

Att. 1: CV (template)
Att. 2: Motivational letter (template)
Att. 3: Letter of recomm. (with ranking)
Att. 4: Grade transcripts
Att. 5: Doc. of English proficiency
Att. 6: Eligibility checklist

**Supporting material**

Guide for applicants


Website




**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

## Call 01 – 2021-2024

| Project description; ***Main supervisor;*** *Computational supervisors (Potential international partner for visits)* | |
|---|---|
| **Chemistry** | ***Secondments:*** Haldor Topsøe, AstraZeneca, StartupLab |
| Computational study of $CO_2$ conversion reactions in multivariate metal organic frameworks; ***Nova****, Olsbye (U. Barc* | |
| Kinetic measurements, atomistic and kinetic modeling of reactions in confined space; ***Olsbye****, Svelle (Karlruhe-IT)* | |
| Efficient implementation of hybrid particle field/MD for the exa-scale; ***Cascella****, Pedersen (Ghent Univ., Belgium)* | |
| Catalyst Discovery by Combining Computational Chemistry with Machine Learning; ***Balcells****, De Bin (Virg. Tech,* | |
| Acceleration of Many-Electron Attosecond Dynamics Simulations; ***Pedersen****, Kvaal (Virg. Tech, USA)* | |
| **Bioscience** | ***Secondments*****: *I:*** DNV GL, Thermo Fisher, Oslo University Hospital, Cognite, StartupLab |
| Large scale recordings of neurons to reveal mechanisms of learning and memory; ***Fyhn****, Malthe-Sørenssen (Simula/* | |
| Large scale simulation of neural networks from mouse visual cortex; ***Einevoll****, Fyhn (UCSD, USA)* | |
| Bio-inspired neural network for navigation; ***Malthe-Sørenssen****, Einevoll (Juhlich, Germany)* | |
| Modeling systems levels changes in brain aging induced by genome instability; ***Nilsen****, Einevoll (USCD, USA)* | |
| **Geoscience** | ***Secondments*****:** ESRF, Cognite, DNV GL, LTDS, Expert Analytics, StartupLab |
| Variable mesh Earth System Models on cloud platforms for high latitude volcanic eruptions; ***Kruger****, Storelvmo (M* | |
| Modelling microscale atmospheric turbulence in the surface layer; ***Berntsen****, Lacasce (Utr* | |
| Role of anisotropic viscosity for computational modeling of convection in the Earth's mant | |
| Computational modeling of hydrogen diffusion along slip planes in upper mantle silicates; | |
| Strain localization in rocks: machine learning analysis of X-ray tomography data; ***Renard****,* | |
| Incorporating real-time datastreams in modeling the state of the Arctic cryosphere; ***Kääb****, S* | |
| **Physics** | ***Secondments***: Thermo Fisher, Expert Analytics, Cognite, DNV GL, StartupLab |
| Frictional properties of surface structures generated by machine-learning; ***Malthe-Sørenssen****, Hjorth-Jensen (LTDS,* | |
| Mesoscale modelling of turbulence and swarming behaviour in soft active matter; ***Angheluta****, Malthe-Sørenssen (O* | |
| Measurement and mechanistic modelling of 3D cell migration; ***Dysthe****, Malthe-Sørenssen (Univ. Grenoble, France)* | |
| Quantum information theories and quantum many-body methods; ***Hjorth-Jensen****, Kvaal (Univ. Tennessee, Knoxv.,* | |
| **Astronomy** | ***Secondments***: LockheedMartin, JPL, Expert Analytics, StartupLab |
| Massive parallelization of end-to-end CMB analysis codes; ***Eriksen****, Wehus (JPL/Caltech, USA)* | |
| Simulations of galaxy formation: interplay between baryonic feedback and dark matter models; ***Shen****, Cicone (Cam* | |
| **Mathematics** | ***Secondments***: DNV GL, Expert Analytics, Torus Actions, StartupLab |
| Statistical learning method for chemistry applications; ***de Bin****, Ballcels (Univ. Bonn, Germany)* | |
| Deep reinforcement learning for industrial applications: taking flow control to the real world: ***Jensen****, Rabault (Lan* | |
| Utilizing covariate information in recommender systems; ***Scheel****, Frigessi (Lancaster Univ., UK)* | |

**Candidates prioritize up to 3 research projects**

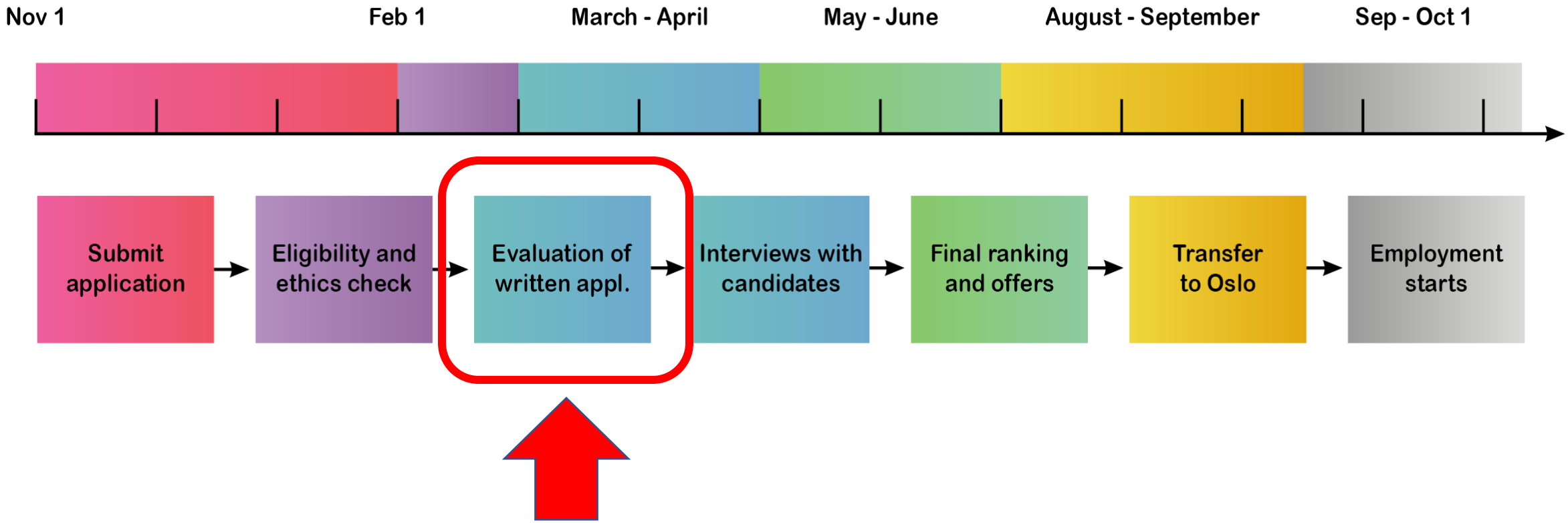
## Call 02 – 2022-2025

| Project description; ***Main supervisor;*** *Computational supervisors (Potential international partner for visits)* | |
|---|---|
| **Chemistry** | ***Secondments:*** Haldor Topsøe, AstraZeneca, StartupLab |
| Mechanistic study of $CO_2$ hydrogenation reactions using microkinetic modelling; ***Nova****, Tilset (ICIQ, Spain)* | |
| Ab initio MD for accurate descriptions of entropy and degradation of nanoporous catalysts; ***Svelle****; Cascella (Ghent* | |
| Spectroscopic studies of porous catalysts and reaction mechanisms, ***Bordiga****, Svelle (Univ. or Torino, Italy)* | |
| Molecular Noninteracting Kinetic Energy by Machine Learning; ***Helgaker****, Kvaal (Univ. of Nottingham,UK)* | |
| Development of density-functional methods utilizing tensor densities; ***Tellgren****, Helgaker (Max Planck SD,Germany* | |
| **Bioscience** | ***Secondments*****: *I:*** DNV GL, Thermo Fisher, Oslo University Hospital, Cognite, StartupLab |
| Molecular modeling of neural mechanisms of brain plasticity; ***Malthe-Sørenssen****, Einevoll (Allen Brain Inst, USA)* | |
| Deep learning from spiking neuron networks; ***Einevoll****, Malthe-Sørenssen (UCSD, USA)* | |
| Computational disambiguation of cell type and cell state in single cell RNA-seq data; ***Hazen****, Einevoll (UCSD, USA,* | |
| Artificial and biological neural networks in cognitive tasks; ***Fyhn,*** *Malthe-Sørenssen (Allen Brain Inst., USA)* | |
| **Geoscience** | ***Secondments*****:** ESRF, Cognite, DNV GL, LTDS, Expert Analytics, StartupLab |
| Optimization, minimum energy states, ocean atmosphere stratification; ***Lacasce****, Hjorth-Jensen (Utrecht Univ., Neth* | |
| *in ocean & atmosphere in satellite data and simulations;* ***Isachsen****, Storelvmo (Utrecht U* | |
| *ntraplate volcanism using the observed distribution of seamounts;* ***Gaina****, Conrad (ELSI)* | |
| *n mantle diffusion and viscosity with geodynamic implications;* ***Caracas****, Gaina (Montp* | |
| *arning based simulations of dynamic fracture in rocks;* ***Jamtveit****, Malthe-Sørenssen (ORNL* | |
| *astic instabilities using machine learning;* ***Angheluta****, Malthe-Sørenssen (ORNL, USA)* | |
| **Physics** | ***Secondments***: Thermo Fisher, Expert Analytics, Cognite, DNV GL, StartupLab |
| First-principle simulations of nanoscale geological processes; ***Malthe-Sørenssen****, Angheluta (Univ. Tennessee, Knox* | |
| Machine-learning-based molecular modeling of nanoscale geological processes; ***Malthe-Sørenssen****, Hjorth-Jensen (* | |
| Differentiation and mineralization in biomimetic hydrogels: microfluidics and modelling; ***Dysthe****, Angheluta (LTDS,* | |
| Deep-learning based analysis and modeling of cell differentiation pathways; ***Scholz****, Dysthe (Univ. Grenoble, Franc* | |
| Supervised and unsupervised machine learning approaches to quantum many-body methods; ***Hjorth-Jensen****, Kvaal (* | |
| **Astronomy** | ***Secondments***: LockheedMartin, JPL, Expert Analytics, StartupLab |
| WholeSun: New codes and frameworks for exascale computing for multi-scale simulations; ***Carlsson****, Gudiksen (CE* | |
| Interpretation of solar observations, using Deep Learning; ***Rouppe van der Voort****, Pereira (Lockheed-Martin, USA)* | |
| **Mathematics** | ***Secondments***: DNV GL, Expert Analytics, Torus Actions, StartupLab |
| Deep learning observables of solutions of nonlinear hyperbolic partial differential equations; ***Fjordholm****, Frigessi (L* | |
| Backtracking gradient descent-based algorithms to defend DNNs against adversarial attacks; ***Truong****, Hansen (Cam* | |

**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

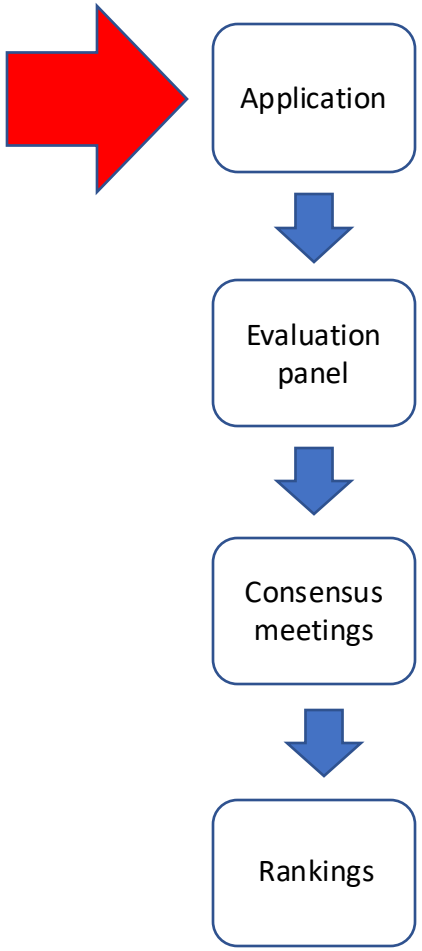
# Selection process




**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Written evaluation – applications




3 experts evaluate each candidate using an evaluation rubric

All experts in **one discipline** coordinate their evaluations in a meeting

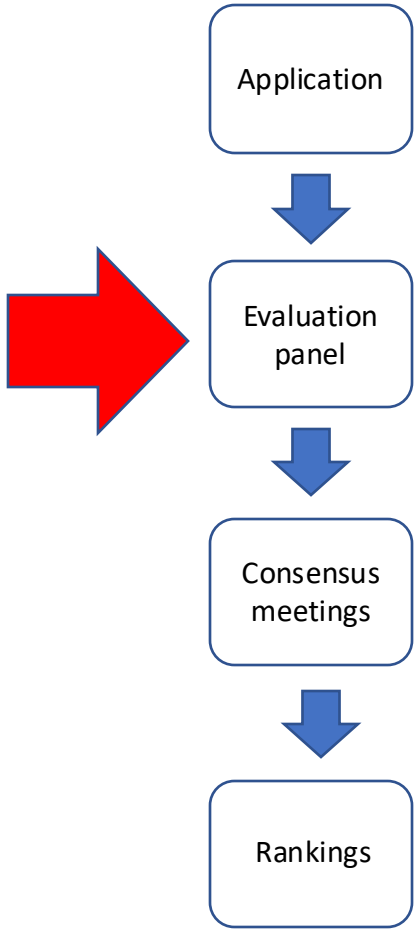
A ranking of candidates for each of the 24 projects

| Project description; ***Main supervisor;*** *Computational supervisors (Potential international partner for visits)* | |
|---|---|
| **Chemistry** | ***Secondments:*** Haldor Topsøe, AstraZeneca, StartupLab |
| Computational study of $CO_2$ conversion reactions in multivariate metal organic frameworks; ***Nova***, *Olsbye (U. Barc* | |
| Kinetic measurements, atomistic and kinetic modeling of reactions in confined space; ***Olsbye***, *Svelle (Karlruhe-IT)* | |
| Efficient implementation of hybrid particle field/MD for the exa-scale; ***Cascella***, *Pedersen (Ghent Univ., Belgium)* | |
| Catalyst Discovery by Combining Computational Chemistry with Machine Learning; ***Balcells***, *De Bin (Virg. Tech,* | |
| Acceleration of Many-Electron Attosecond Dynamics Simulations; ***Pedersen***, *Kvaal (Virg. Tech, USA)* | |
| **Bioscience** | ***Secondments***: ***I:*** DNV GL, Thermo Fisher, Oslo University Hospital, Cognite, StartupLab |
| Large scale recordings of neurons to reveal mechanisms of learning and memory; ***Fyhn***, *Malthe-Sørenssen (Simula/* | |
| Large scale simulation of neural networks from mouse visual cortex; ***Einevoll***, *Fyhn (UCSD, USA)* | |
| Bio-inspired neural network for navigation; ***Malthe-Sørenssen***, *Einevoll (Juhlich, Germany)* | |
| Modeling systems levels changes in brain aging induced by genome instability; ***Nilsen***, *Einevoll (USCD, USA)* | |
| **Geoscience** | ***Secondments*:** ESRF, Cognite, DNV GL, LTDS, Expert Analytics, StartupLab |
| Variable mesh Earth System Models on cloud platforms for high latitude volcanic eruptions; ***Kruger***, *Storelvmo (MI* | |
| Modelling microscale atmospheric turbulence in the surface layer; ***Berntsen***, *Lacasce (Utrecht Univ., Netherlands)* | |
| Role of anisotropic viscosity for computational modeling of convection in the Earth's mantle; ***Conrad***, *Kiraly (ELSI* | |
| Computational modeling of hydrogen diffusion along slip planes in upper mantle silicates; ***Caracas***, *Conrad (Montp* | |
| Strain localization in rocks: machine learning analysis of X-ray tomography data; ***Renard***, *Cordonnier (ESRF)* | |
| Incorporating real-time datastreams in modeling the state of the Arctic cryosphere; ***Kääb***, *Schuler (Geosci. Montpell* | |
| **Physics** | ***Secondments***: Thermo Fisher, Expert Analytics, Cognite, DNV GL, StartupLab |
| Frictional properties of surface structures generated by machine-learning; ***Malthe-Sørenssen***, *Hjorth-Jensen (LTDS,* | |
| Mesoscale modelling of turbulence and swarming behaviour in soft active matter; ***Angheluta***, *Malthe-Sørenssen (O* | |
| Measurement and mechanistic modelling of 3D cell migration; ***Dysthe***, *Malthe-Sørenssen (Univ. Grenoble, France)* | |
| Quantum information theories and quantum many-body methods; ***Hjorth-Jensen***, *Kvaal (Univ. Tennessee, Knoxv.,* | |
| **Astronomy** | ***Secondments***: LockheedMartin, JPL, Expert Analytics, StartupLab |
| Massive parallelization of end-to-end CMB analysis codes; ***Eriksen***, *Wehus (JPL/Caltech, USA)* | |
| Simulations of galaxy formation: interplay between baryonic feedback and dark matter models; ***Shen***, *Cicone (Cam* | |
| **Mathematics** | ***Secondments***: DNV GL, Expert Analytics, Torus Actions, StartupLab |
| Statistical learning method for chemistry applications; ***de Bin***, *Ballcels (Univ. Bonn, Germany)* | |
| Deep reinforcement learning for industrial applications: taking flow control to the real world: ***Jensen***, *Rabault (Lanc* | |
| Utilizing covariate information in recommender systems; ***Scheel***, *Frigessi (Lancaster Univ., UK)* | |

**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Written evaluation – expert panels




3 experts evaluate each candidate using an evaluation rubric

All experts in **one discipline** coordinate their evaluations in a meeting

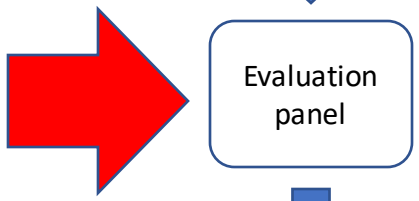
A ranking of candidates for each of the 24 projects

| Project description; ***Main supervisor;*** *Computational supervisors (Potential international partner for visits)* | |
|---|---|
| **Chemistry** | ***Secondments:*** Haldor Topsøe, AstraZeneca, StartupLab |
| Computational study of $CO_2$ conversion reactions in multivariate metal organic frameworks; ***Nova***, *Olsbye (U. Barc* | |
| Kinetic measurements, atomistic and kinetic modeling of reactions in confined space; ***Olsbye***, *Svelle (Karlruhe-IT)* | |
| Efficient implementation of hybrid particle field/MD for the exa-scale; ***Cascella***, *Pedersen (Ghent Univ., Belgium)* | |
| Catalyst Discovery by Combining Computational Chemistry with Machine Learning; ***Balcells***, *De Bin (Virg. Tech,* | |
| Acceleration of Many-Electron Attosecond Dynamics Simulations; ***Pedersen***, *Kvaal (Virg. Tech, USA)* | |
| **Bioscience** | ***Secondments***: ***I:*** DNV GL, Thermo Fisher, Oslo University Hospital, Cognite, StartupLab |
| Large scale recordings of neurons to reveal mechanisms of learning and memory; ***Fyhn***, *Malthe-Sørenssen (Simula/* | |
| Large scale simulation of neural networks from mouse visual cortex; ***Einevoll***, *Fyhn (UCSD, USA)* | |
| Bio-inspired neural network for navigation; ***Malthe-Sørenssen***, *Einevoll (Juhlich, Germany)* | |
| Modeling systems levels changes in brain aging induced by genome instability; ***Nilsen***, *Einevoll (USCD, USA)* | |
| **Geoscience** | ***Secondments*:** ESRF, Cognite, DNV GL, LTDS, Expert Analytics, StartupLab |
| Variable mesh Earth System Models on cloud platforms for high latitude volcanic eruptions; ***Kruger***, *Storelvmo (M* | |
| Modelling microscale atmospheric turbulence in the surface layer; ***Berntsen***, *Lacasce (Utrecht Univ., Netherlands)* | |
| Role of anisotropic viscosity for computational modeling of convection in the Earth's mantle; ***Conrad***, *Kiraly (ELSI* | |
| Computational modeling of hydrogen diffusion along slip planes in upper mantle silicates; ***Caracas***, *Conrad (Montp* | |
| Strain localization in rocks: machine learning analysis of X-ray tomography data; ***Renard***, *Cordonnier (ESRF)* | |
| Incorporating real-time datastreams in modeling the state of the Arctic cryosphere; ***Kääb***, *Schuler (Geosci. Montpell* | |
| **Physics** | ***Secondments***: Thermo Fisher, Expert Analytics, Cognite, DNV GL, StartupLab |
| Frictional properties of surface structures generated by machine-learning; ***Malthe-Sørenssen***, *Hjorth-Jensen (LTDS,* | |
| Mesoscale modelling of turbulence and swarming behaviour in soft active matter; ***Angheluta***, *Malthe-Sørenssen (O* | |
| Measurement and mechanistic modelling of 3D cell migration; ***Dysthe***, *Malthe-Sørenssen (Univ. Grenoble, France)* | |
| Quantum information theories and quantum many-body methods; ***Hjorth-Jensen***, *Kvaal (Univ. Tennessee, Knoxv.,* | |
| **Astronomy** | ***Secondments***: LockheedMartin, JPL, Expert Analytics, StartupLab |
| Massive parallelization of end-to-end CMB analysis codes; ***Eriksen***, *Wehus (JPL/Caltech, USA)* | |
| Simulations of galaxy formation: interplay between baryonic feedback and dark matter models; ***Shen***, *Cicone (Cam* | |
| **Mathematics** | ***Secondments***: DNV GL, Expert Analytics, Torus Actions, StartupLab |
| Statistical learning method for chemistry applications; ***de Bin***, *Ballcels (Univ. Bonn, Germany)* | |
| Deep reinforcement learning for industrial applications: taking flow control to the real world: ***Jensen***, *Rabault (Lanc* | |
| Utilizing covariate information in recommender systems; ***Scheel***, *Frigessi (Lancaster Univ., UK)* | |

**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Written evaluation – expert panels



Application

Evaluation panel

Consensus meetings

Rankings

**International experts have been recruited by project supervisors**

3 experts evaluate each candidate using an evaluation rubric

All experts in **one discipline** coordinate their evaluations in a meeting

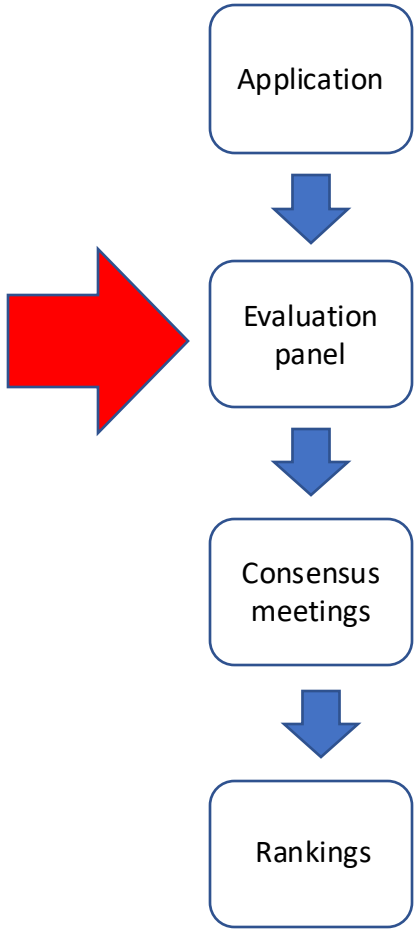
A ranking of candidates for each of the 24 projects

| Project description; ***Main supervisor;*** *Computational supervisors (Potential international partner for visits)* | |
|---|---|
| **Chemistry** | ***Secondments:*** Haldor Topsøe, AstraZeneca, StartupLab |
| Computational study of $CO_2$ conversion reactions in multivariate metal organic frameworks; ***Nova***, *Olsbye (U. Barc* | |
| Kinetic measurements, atomistic and kinetic modeling of reactions in confined space; ***Olsbye***, *Svelle (Karlruhe-IT)* | |
| Efficient implementation of hybrid particle field/MD for the exa-scale; ***Cascella***, *Pedersen (Ghent Univ., Belgium)* | |
| Catalyst Discovery by Combining Computational Chemistry with Machine Learning; ***Balcells***, *De Bin (Virg. Tech,* | |
| Acceleration of Many-Electron Attosecond Dynamics Simulations; ***Pedersen***, *Kvaal (Virg. Tech, USA)* | |
| **Bioscience** | ***Secondments***: ***I:*** DNV GL, Thermo Fisher, Oslo University Hospital, Cognite, StartupLab |
| Large scale recordings of neurons to reveal mechanisms of learning and memory; ***Fyhn***, *Malthe-Sørenssen (Simula/* | |
| Large scale simulation of neural networks from mouse visual cortex; ***Einevoll***, *Fyhn (UCSD, USA)* | |
| Bio-inspired neural network for navigation; ***Malthe-Sørenssen***, *Einevoll (Juhlich, Germany)* | |
| Modeling systems levels changes in brain aging induced by genome instability; ***Nilsen***, *Einevoll (USCD, USA)* | |
| **Geoscience** | ***Secondments*:** ESRF, Cognite, DNV GL, LTDS, Expert Analytics, StartupLab |
| Variable mesh Earth System Models on cloud platforms for high latitude volcanic eruptions; ***Kruger***, *Storelvmo (MI* | |
| Modelling microscale atmospheric turbulence in the surface layer; ***Berntsen***, *Lacasce (Utrecht Univ., Netherlands)* | |
| Role of anisotropic viscosity for computational modeling of convection in the Earth's mantle; ***Conrad***, *Kiraly (ELSI* | |
| Computational modeling of hydrogen diffusion along slip planes in upper mantle silicates; ***Caracas***, *Conrad (Montp* | |
| Strain localization in rocks: machine learning analysis of X-ray tomography data; ***Renard***, *Cordonnier (ESRF)* | |
| Incorporating real-time datastreams in modeling the state of the Arctic cryosphere; ***Kääb***, *Schuler (Geosci. Montpell* | |
| **Physics** | ***Secondments***: Thermo Fisher, Expert Analytics, Cognite, DNV GL, StartupLab |
| Frictional properties of surface structures generated by machine-learning; ***Malthe-Sørenssen***, *Hjorth-Jensen (LTDS,* | |
| Mesoscale modelling of turbulence and swarming behaviour in soft active matter; ***Angheluta***, *Malthe-Sørenssen (O* | |
| Measurement and mechanistic modelling of 3D cell migration; ***Dysthe***, *Malthe-Sørenssen (Univ. Grenoble, France)* | |
| Quantum information theories and quantum many-body methods; ***Hjorth-Jensen***, *Kvaal (Univ. Tennessee, Knoxv.,* | |
| **Astronomy** | ***Secondments***: LockheedMartin, JPL, Expert Analytics, StartupLab |
| Massive parallelization of end-to-end CMB analysis codes; ***Eriksen***, *Wehus (JPL/Caltech, USA)* | |
| Simulations of galaxy formation: interplay between baryonic feedback and dark matter models; ***Shen***, *Cicone (Cam* | |
| **Mathematics** | ***Secondments***: DNV GL, Expert Analytics, Torus Actions, StartupLab |
| Statistical learning method for chemistry applications; ***de Bin***, *Ballcels (Univ. Bonn, Germany)* | |
| Deep reinforcement learning for industrial applications: taking flow control to the real world: ***Jensen***, *Rabault (Lanc* | |
| Utilizing covariate information in recommender systems; ***Scheel***, *Frigessi (Lancaster Univ., UK)* | |

**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Written evaluation – expert panels




3 experts evaluate each candidate using an evaluation rubric

All experts in **one discipline** coordinate their evaluations in a meeting

A ranking of candidates for each of the 24 projects

| Project description; ***Main supervisor;*** *Computational supervisors (Potential international partner for visits)* | |
|---|---|
| **Chemistry** | ***Secondments:*** Haldor Topsøe, AstraZeneca, StartupLab |
| Computational study of $CO_2$ conversion reactions in multivariate metal organic frameworks; ***Nova***, *Olsbye (U. Barc* | |
| Kinetic measurements, atomistic and kinetic modeling of reactions in confined space; ***Olsbye***, *Svelle (Karlruhe-IT)* | |
| Efficient implementation of hybrid particle field/MD for the exa-scale; ***Cascella***, *Pedersen (Ghent Univ., Belgium)* | |
| Catalyst Discovery by Combining Computational Chemistry with Machine Learning; ***Balcells***, *De Bin (Virg. Tech,* | |
| Acceleration of Many-Electron Attosecond Dynamics Simulations; ***Pedersen***, *Kvaal (Virg. Tech, USA)* | |
| **Bioscience** | ***Secondments***: ***I:*** DNV GL, Thermo Fisher, Oslo University Hospital, Cognite, StartupLab |
| Large scale recordings of neurons to reveal mechanisms of learning and memory; ***Fyhn***, *Malthe-Sørenssen (Simula/* | |
| Large scale simulation of neural networks from mouse visual cortex; ***Einevoll***, *Fyhn (UCSD, USA)* | |
| Bio-inspired neural network for navigation; ***Malthe-Sørenssen***, *Einevoll (Juhlich, Germany)* | |
| Modeling systems levels changes in brain aging induced by genome instability; ***Nilsen***, *Einevoll (USCD, USA)* | |
| **Geoscience** | ***Secondments*:** ESRF, Cognite, DNV GL, LTDS, Expert Analytics, StartupLab |
| Variable mesh Earth System Models on cloud platforms for high latitude volcanic eruptions; ***Kruger***, *Storelvmo (M* | |
| Modelling microscale atmospheric turbulence in the surface layer; ***Berntsen***, *Lacasce (Utrecht Univ., Netherlands)* | |
| Role of anisotropic viscosity for computational modeling of convection in the Earth's mantle; ***Conrad***, *Kiraly (ELSI* | |
| Computational modeling of hydrogen diffusion along slip planes in upper mantle silicates; ***Caracas***, *Conrad (Montp* | |
| Strain localization in rocks: machine learning analysis of X-ray tomography data; ***Renard***, *Cordonnier (ESRF)* | |
| Incorporating real-time datastreams in modeling the state of the Arctic cryosphere; ***Kääb***, *Schuler (Geosci. Montpell* | |
| **Physics** | ***Secondments***: Thermo Fisher, Expert Analytics, Cognite, DNV GL, StartupLab |
| Frictional properties of surface structures generated by machine-learning; ***Malthe-Sørenssen***, *Hjorth-Jensen (LTDS,* | |
| Mesoscale modelling of turbulence and swarming behaviour in soft active matter; ***Angheluta***, *Malthe-Sørenssen (O* | |
| Measurement and mechanistic modelling of 3D cell migration; ***Dysthe***, *Malthe-Sørenssen (Univ. Grenoble, France)* | |
| Quantum information theories and quantum many-body methods; ***Hjorth-Jensen***, *Kvaal (Univ. Tennessee, Knoxv.,* | |
| **Astronomy** | ***Secondments***: LockheedMartin, JPL, Expert Analytics, StartupLab |
| Massive parallelization of end-to-end CMB analysis codes; ***Eriksen***, *Wehus (JPL/Caltech, USA)* | |
| Simulations of galaxy formation: interplay between baryonic feedback and dark matter models; ***Shen***, *Cicone (Cam* | |
| **Mathematics** | ***Secondments***: DNV GL, Expert Analytics, Torus Actions, StartupLab |
| Statistical learning method for chemistry applications; ***de Bin***, *Ballcels (Univ. Bonn, Germany)* | |
| Deep reinforcement learning for industrial applications: taking flow control to the real world: ***Jensen***, *Rabault (Lanc* | |
| Utilizing covariate information in recommender systems; ***Scheel***, *Frigessi (Lancaster Univ., UK)* | |

**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# CompSci – Independent Expert Evaluation Form – Call 1

*Please save the filled in document with a file name including your name as well as the candidate's name e.g. Evaluation Call 1_YOUR SURNAME_CANDIDATE's SURNAME*

| | |
|---|---|
| PANEL | |
| NAME OF CANDIDATE | |
| NAME OF EVALUATOR | |

| Criterion | Score Research project Priority 1 (0-5)[1] | Score Research project Priority 2 (0-5) | Score Research project Priority 3 (0-5) |
|---|---|---|---|
| **1. CV, degree and skills** Grades, track record, publications and presentations, student should be in the top 25% of their respective grading system | | | |
| **2. Motivation letter** Scientific maturity, motivation and interdisciplinary motivation | | | |
| **3. Match with topic** Relevance of education, thesis, and courses | | | |
| **4. Reference letter** Statement of relative rank in cohort | | | |
| **Total score for all criteria (max. 20)** | | | |

Comments to the score:

Date: Signature:

# CompSci – Assessment rubric for evaluation of written materials

| Criterion | Factors | Threshold | Weight |
|---|---|---|---|
| **CV, degree and skills** | **Grades, track record, publications and presentations, student should be in the top 25% of their respective grading system** | **3** | **45%** |

| Score: 5 | Score: 3 | Score: 1 |
|---|---|---|
| Exceptional candidate relative to the level in the field (top 5%). Background from the best national/very good international educational program. May have top results from national/international rankings, competitions. | Strong candidate relative to the level in the field (top 25%) Background from a very good national program/international program. May have good results from national/international rankings or competitions. | Average candidate relative to the level in the field (top 50%) Background from an average national program. |

| Motivational letter | Scientific maturity, motivation and interdisciplinary motivation | 2 | 15% |
|---|---|---|---|

| Score: 5 | Score: 3 | Score: 1 |
|---|---|---|
| Demonstrates strong scientific maturity and strong motivation for pursuing a PhD and participating in the CompSci program. Provides clear motivation for interdisciplinary work with examples from own experience. | Demonstrates scientific understanding and motivation for pursuing a PhD and participating in the CompSci program. Provides some motivation for interdisciplinary work possibly with example from own experience. | Does not demonstrate a scientific understanding of the field and does not provide a motivating for purusing a PhD or participating in the CompSci program. Provides weak or no motivation for interdisciplinary work with little own experience. |

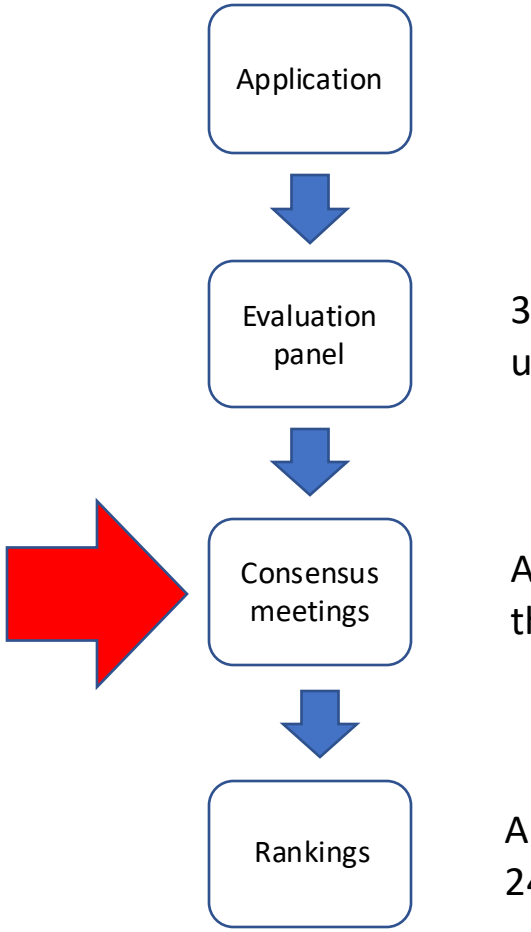
| Match with topic | Relevance of education, thesis, and courses | 3 | 30% |
|---|---|---|---|

| Score: 5 | Score: 3 | Score: 1 |
|---|---|---|
| Education, thesis and courses provides an excellent background for the specific project. | Education, thesis and courses provides an acceptable background for the specific project. | Education, thesis and courses does not provide a sufficient background for the specific project. |

| Reference letter | Statement of relative rank in cohort | 2 | 10% |
|---|---|---|---|

| Score: 5 | Score: 3 | Score: 1 |
|---|---|---|
| Candidate described as in top 5% of cohort. Letter explicitely states that student has demonstrated experience in interdisciplinary work. | Candidate described as in top 25% of cohort. | Candidate described as top 50% of cohort. |

# Written evaluation – consensus meeting




3 experts evaluate each candidate using an evaluation rubric

All experts in **one discipline** coordinate their evaluations in a meeting

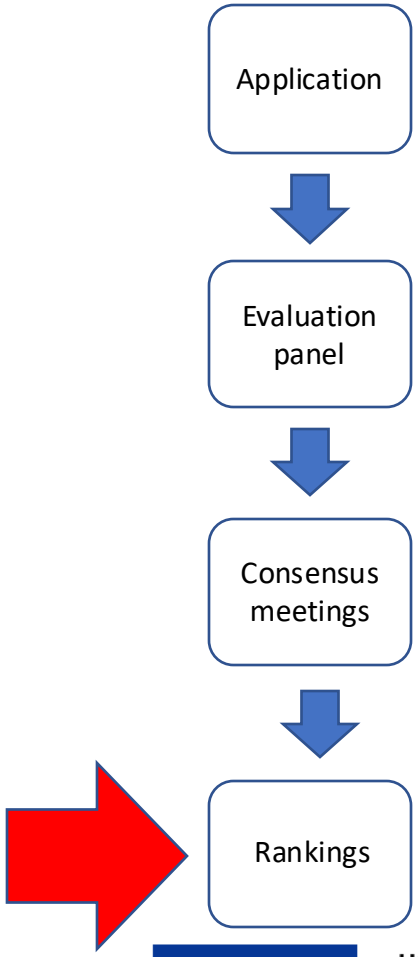
A ranking of candidates for each of the 24 projects

| Project description; ***Main supervisor;*** *Computational supervisors (Potential international partner for visits)* | |
|---|---|
| **Chemistry** | ***Secondments:*** Haldor Topsøe, AstraZeneca, StartupLab |
| Computational study of $CO_2$ conversion reactions in multivariate metal organic frameworks; ***Nova***, *Olsbye (U. Barc* | |
| Kinetic measurements, atomistic and kinetic modeling of reactions in confined space; ***Olsbye***, *Svelle (Karlruhe-IT)* | |
| Efficient implementation of hybrid particle field/MD for the exa-scale; ***Cascella***, *Pedersen (Ghent Univ., Belgium)* | |
| Catalyst Discovery by Combining Computational Chemistry with Machine Learning; ***Balcells***, *De Bin (Virg. Tech,* | |
| Acceleration of Many-Electron Attosecond Dynamics Simulations; ***Pedersen***, *Kvaal (Virg. Tech, USA)* | |
| **Bioscience** | ***Secondments***: ***I:*** DNV GL, Thermo Fisher, Oslo University Hospital, Cognite, StartupLab |
| Large scale recordings of neurons to reveal mechanisms of learning and memory; ***Fyhn***, *Malthe-Sørenssen (Simula/* | |
| Large scale simulation of neural networks from mouse visual cortex; ***Einevoll***, *Fyhn (UCSD, USA)* | |
| Bio-inspired neural network for navigation; ***Malthe-Sørenssen***, *Einevoll (Juhlich, Germany)* | |
| Modeling systems levels changes in brain aging induced by genome instability; ***Nilsen***, *Einevoll (USCD, USA)* | |
| **Geoscience** | ***Secondments*:** ESRF, Cognite, DNV GL, LTDS, Expert Analytics, StartupLab |
| Variable mesh Earth System Models on cloud platforms for high latitude volcanic eruptions; ***Kruger***, *Storelvmo (M* | |
| Modelling microscale atmospheric turbulence in the surface layer; ***Berntsen***, *Lacasce (Utrecht Univ., Netherlands)* | |
| Role of anisotropic viscosity for computational modeling of convection in the Earth's mantle; ***Conrad***, *Kiraly (ELSI* | |
| Computational modeling of hydrogen diffusion along slip planes in upper mantle silicates; ***Caracas***, *Conrad (Montp* | |
| Strain localization in rocks: machine learning analysis of X-ray tomography data; ***Renard***, *Cordonnier (ESRF)* | |
| Incorporating real-time datastreams in modeling the state of the Arctic cryosphere; ***Kääb***, *Schuler (Geosci. Montpell* | |
| **Physics** | ***Secondments***: Thermo Fisher, Expert Analytics, Cognite, DNV GL, StartupLab |
| Frictional properties of surface structures generated by machine-learning; ***Malthe-Sørenssen***, *Hjorth-Jensen (LTDS,* | |
| Mesoscale modelling of turbulence and swarming behaviour in soft active matter; ***Angheluta***, *Malthe-Sørenssen (O* | |
| Measurement and mechanistic modelling of 3D cell migration; ***Dysthe***, *Malthe-Sørenssen (Univ. Grenoble, France)* | |
| Quantum information theories and quantum many-body methods; ***Hjorth-Jensen***, *Kvaal (Univ. Tennessee, Knoxv.,* | |
| **Astronomy** | ***Secondments***: LockheedMartin, JPL, Expert Analytics, StartupLab |
| Massive parallelization of end-to-end CMB analysis codes; ***Eriksen***, *Wehus (JPL/Caltech, USA)* | |
| Simulations of galaxy formation: interplay between baryonic feedback and dark matter models; ***Shen***, *Cicone (Cam* | |
| **Mathematics** | ***Secondments***: DNV GL, Expert Analytics, Torus Actions, StartupLab |
| Statistical learning method for chemistry applications; ***de Bin***, *Ballcels (Univ. Bonn, Germany)* | |
| Deep reinforcement learning for industrial applications: taking flow control to the real world: ***Jensen***, *Rabault (Lan* | |
| Utilizing covariate information in recommender systems; ***Scheel***, *Frigessi (Lancaster Univ., UK)* | |

**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Written evaluation – ranking per discipline




3 experts evaluate each candidate using an evaluation rubric

All experts in **one discipline** coordinate their evaluations in a meeting

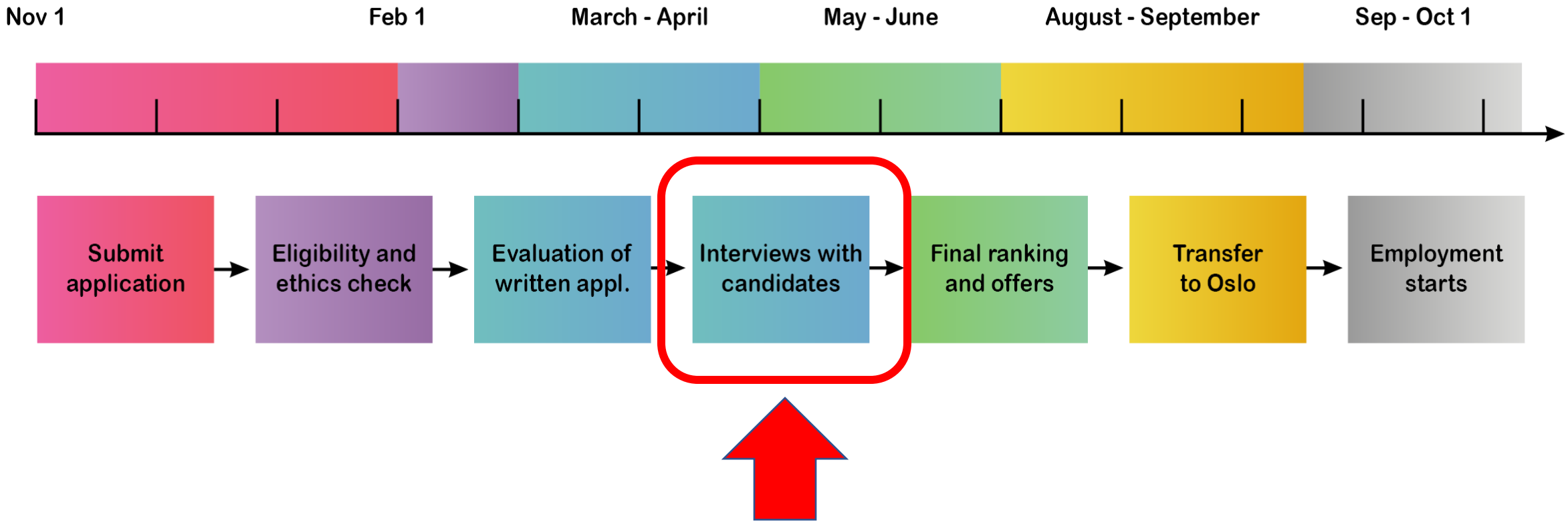
A ranking of candidates for **each of the 24 projects**

| Project description; ***Main supervisor;*** *Computational supervisors (Potential international partner for visits)* | |
|---|---|
| **Chemistry** | ***Secondments:*** Haldor Topsøe, AstraZeneca, StartupLab |
| Computational study of $CO_2$ conversion reactions in multivariate metal organic frameworks; ***Nova***, *Olsbye (U. Barc* | |
| Kinetic measurements, atomistic and kinetic modeling of reactions in confined space; ***Olsbye***, *Svelle (Karlruhe-IT)* | |
| Efficient implementation of hybrid particle field/MD for the exa-scale; ***Cascella***, *Pedersen (Ghent Univ., Belgium)* | |
| Catalyst Discovery by Combining Computational Chemistry with Machine Learning; ***Balcells***, *De Bin (Virg. Tech,* | |
| Acceleration of Many-Electron Attosecond Dynamics Simulations; ***Pedersen***, *Kvaal (Virg. Tech, USA)* | |
| **Bioscience** | ***Secondments***: ***I:*** DNV GL, Thermo Fisher, Oslo University Hospital, Cognite, StartupLab |
| Large scale recordings of neurons to reveal mechanisms of learning and memory; ***Fyhn***, *Malthe-Sørenssen (Simula/* | |
| Large scale simulation of neural networks from mouse visual cortex; ***Einevoll***, *Fyhn (UCSD, USA)* | |
| Bio-inspired neural network for navigation; ***Malthe-Sørenssen***, *Einevoll (Juhlich, Germany)* | |
| Modeling systems levels changes in brain aging induced by genome instability; ***Nilsen***, *Einevoll (USCD, USA)* | |
| **Geoscience** | ***Secondments*:** ESRF, Cognite, DNV GL, LTDS, Expert Analytics, StartupLab |
| Variable mesh Earth System Models on cloud platforms for high latitude volcanic eruptions; ***Kruger***, *Storelvmo (MI* | |
| Modelling microscale atmospheric turbulence in the surface layer; ***Berntsen***, *Lacasce (Utrecht Univ., Netherlands)* | |
| Role of anisotropic viscosity for computational modeling of convection in the Earth's mantle; ***Conrad***, *Kiraly (ELSI* | |
| Computational modeling of hydrogen diffusion along slip planes in upper mantle silicates; ***Caracas***, *Conrad (Montp* | |
| Strain localization in rocks: machine learning analysis of X-ray tomography data; ***Renard***, *Cordonnier (ESRF)* | |
| Incorporating real-time datastreams in modeling the state of the Arctic cryosphere; ***Kääb***, *Schuler (Geosci. Montpell* | |
| **Physics** | ***Secondments***: Thermo Fisher, Expert Analytics, Cognite, DNV GL, StartupLab |
| Frictional properties of surface structures generated by machine-learning; ***Malthe-Sørenssen***, *Hjorth-Jensen (LTDS,* | |
| Mesoscale modelling of turbulence and swarming behaviour in soft active matter; ***Angheluta***, *Malthe-Sørenssen (O* | |
| Measurement and mechanistic modelling of 3D cell migration; ***Dysthe***, *Malthe-Sørenssen (Univ. Grenoble, France)* | |
| Quantum information theories and quantum many-body methods; ***Hjorth-Jensen***, *Kvaal (Univ. Tennessee, Knoxv.,* | |
| **Astronomy** | ***Secondments***: LockheedMartin, JPL, Expert Analytics, StartupLab |
| Massive parallelization of end-to-end CMB analysis codes; ***Eriksen***, *Wehus (JPL/Caltech, USA)* | |
| Simulations of galaxy formation: interplay between baryonic feedback and dark matter models; ***Shen***, *Cicone (Cam* | |
| **Mathematics** | ***Secondments***: DNV GL, Expert Analytics, Torus Actions, StartupLab |
| Statistical learning method for chemistry applications; ***de Bin***, *Ballcels (Univ. Bonn, Germany)* | |
| Deep reinforcement learning for industrial applications: taking flow control to the real world: ***Jensen***, *Rabault (Lan* | |
| Utilizing covariate information in recommender systems; ***Scheel***, *Frigessi (Lancaster Univ., UK)* | |

**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Selection process




**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Interview with expert panel + supervisors

## CompSci – Questions for structured interviews

| Time | Element |
|---|---|
| 2 min | **Introduction**<br>Supervisor wishes candidate welcome, introduces participants, and outlines the interview |
| 15 min | **Scientific presentation**<br>**Goal:** Assess scientific maturity and vision |
| | Q1.1: Please provide a 7 minute presentation of a scientific project you have worked on. You may share slides if you want to. |
| | Q1.2: (Committee members asks 1-2 scientifically relevant questions to the talk) |
| | Q1.3: Briefly describe your role in the research project?<br>(Address: who provided scientific ideas, was it a team work or an independent project, how was supervision organized) |
| | (Optional) Q1.4: What did you learn from participating in this project? |
| 10 min | **CV presentation and match with topic**<br>**Goal:** Assess background and motivation for research project |
| | Q2.1: Please briefly describe how your background is relevant for the research project |
| | Q2.2: Briefly explain your motivation for the research project |
| 10 min | **Team work experience and interdisciplinary motivation**<br>**Goal:** Assess independence, initiative, collaboration and interdisciplinary experience |
| | (Intro by supervisor): In this project you will work with a team of researchers on the research project, and you will be part of a larger cohort of other PhD students. |
| | Q3.1: Can you give an example of a situation where you have worked in a team with other researchers to achieve a common goal and what did you learn from this collaboration? |
| | Q3.2: Can you give an example of a situation where you have worked across disciplines and what did you learn from this collaboration? |
| | Q3.3: What is your motivation to apply for the CompSci program and how will you contribute to the success of the program and of the other students in the program? |
| | (Optional) Q3.4: Why should we choose you for this project? |
| | (Optional) Q3.5: Provide an example of a project where you did not succeed and how you handled that situation. |
| 5 min | **Questions from the candidate** |
| | Q4.1: Do you have any questions about the program, the project or the process? |

## CompSci – Assessment rubric for interviews

| Criterion | Factors | Threshold | Weight |
|---|---|---|---|
| **Scientific presentation** | Presentation about previously carried out research work (e.g. MSc) or relevant work experience.<br>**Criteria: Scientific maturity and vision; ability to take part in a scientific discussion; Oral English skills** | **3** | **50%** |

| Score: 5 | Score: 3 | Score: 1 |
|---|---|---|
| • Demonstrates a mature scientific understanding and oversight<br>• Excellent presentation of the research project.<br>• Very mature reflections on the scientific work process.<br>• Excellent oral English skills. | • Demonstrates reasonable scientific understanding.<br>• Good presentation of the research project.<br>• Reflects on the scientific work process.<br>• Good oral English skills. | • Does not demonstrate a scientific understanding.<br>• Weak presentation of the research project.<br>• Does not reflect on the scientific work process.<br>• Weak oral English skills. |

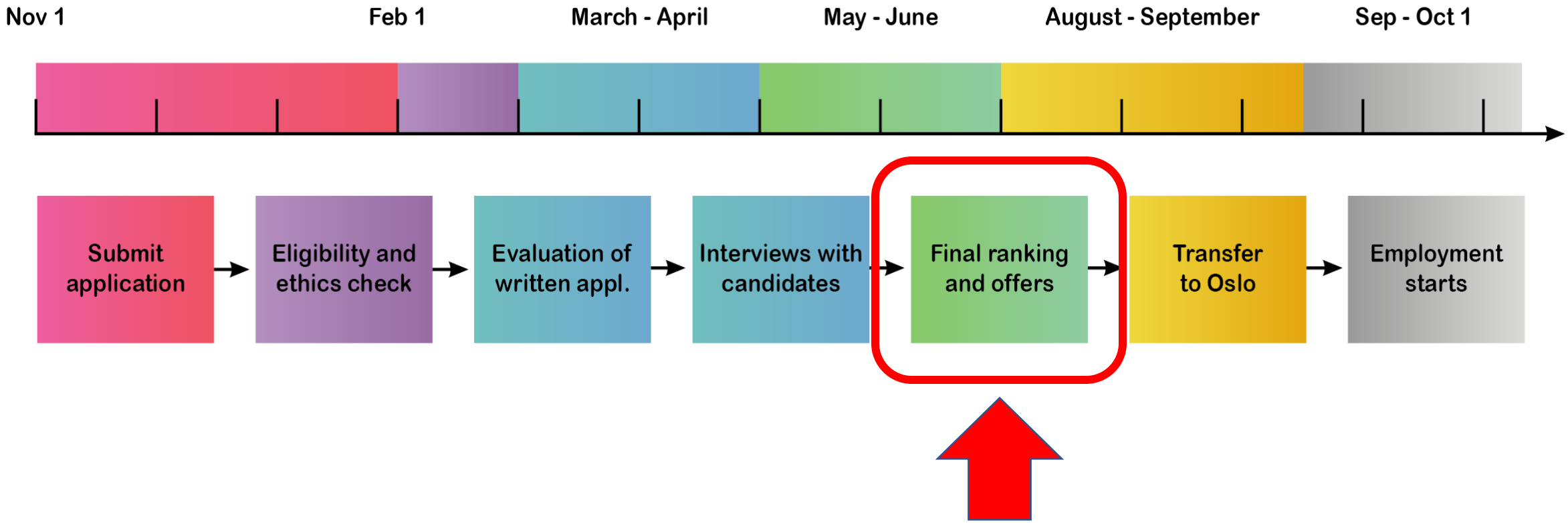
| CV presentation and match with topic | CV presentation and how candidate match with topic<br>**Criteria: Ability to reflect on and match background to research topic i.e. relevance of education, thesis and courses** | **3** | **30%** |
|---|---|---|---|

| Score: 5 | Score: 3 | Score: 1 |
|---|---|---|
| • Maturely reflects on how background qualifies for the project and the CompSci program.<br>• Demonstrates excellent understanding of the research project. | • Good reflection on background and how it qualifies for the project and the CompSci program.<br>• Demonstrates good understanding of the research project. | • Weak reflection on how bacground qualifies for the project and the CompSci program.<br>• Demonstrates weak understanding of the research project. |

| Team work | **Team work experience and interdisciplinary motivation**<br>**Criteria: Initiative to contribute, interdisciplinary motivation** | **3** | **20%** |
|---|---|---|---|

| Score: 5 | Score: 3 | Score: 1 |
|---|---|---|
| • Mature reflection on own team work experience with examples from own experience.<br>• Provides clear motivation for interdisciplinary work with examples from own experience.<br>• Provides an excellent motivation for the CompSci program and for pursuing a PhD. | • Some reflection on own team work experience possibly with example from own experience.<br>• Provides some motivation for interdisciplinary work possibly with example from own experience.<br>• Provides a good motivation for the CompSci program and for pursuing a PhD. | • No reflection on own team work experience.<br>• Provides weak or no motivation for interdisciplinary work with little own experience.<br>• Provides weak of no motivation for the CompSci program or for pursuing a PhD. |

# Selection process




**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Final ranking by selection committee

24 candidates ranked by selection committee based on the applications, reports from written evaluation and reports from interviews.

> ***Selection committee****: 1 expert from each discipline + 1 new international expert + dean of research + project coordinator*

Offers given to 2/3 of candidates within each discipline

Offers submitted by university administration

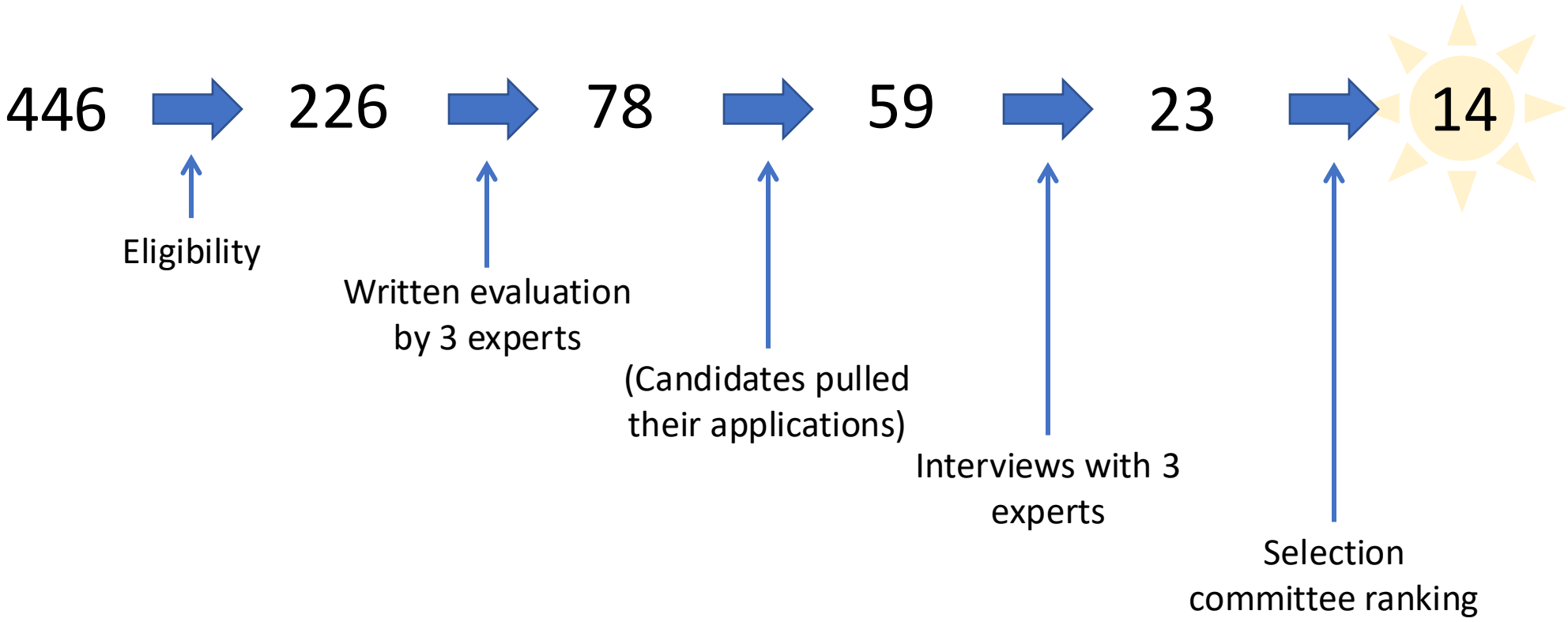
**Challenge**: some students declined the offered positions.

| Project description; ***Main supervisor;*** *Computational supervisors (Potential international partner for visits)* | |
|---|---|
| **Chemistry** | ***Secondments:*** Haldor Topsøe, AstraZeneca, StartupLab |
| Computational study of $CO_2$ conversion reactions in multivariate metal organic frameworks; ***Nova****, Olsbye (U. Barc* | |
| Kinetic measurements, atomistic and kinetic modeling of reactions in confined space; ***Olsbye****, Svelle (Karlruhe-IT)* | |
| Efficient implementation of hybrid particle field/MD for the exa-scale; ***Cascella****, Pedersen (Ghent Univ., Belgium)* | |
| Catalyst Discovery by Combining Computational Chemistry with Machine Learning; ***Balcells****, De Bin (Virg. Tech,* | |
| Acceleration of Many-Electron Attosecond Dynamics Simulations; ***Pedersen****, Kvaal (Virg. Tech, USA)* | |
| **Bioscience** | ***Secondments*****:** ***I:*** DNV GL, Thermo Fisher, Oslo University Hospital, Cognite, StartupLab |
| Large scale recordings of neurons to reveal mechanisms of learning and memory; ***Fyhn****, Malthe-Sørenssen (Simula/* | |
| Large scale simulation of neural networks from mouse visual cortex; ***Einevoll****, Fyhn (UCSD, USA)* | |
| Bio-inspired neural network for navigation; ***Malthe-Sørenssen****, Einevoll (Juhlich, Germany)* | |
| Modeling systems levels changes in brain aging induced by genome instability; ***Nilsen****, Einevoll (USCD, USA)* | |
| **Geoscience** | ***Secondments*****:** ESRF, Cognite, DNV GL, LTDS, Expert Analytics, StartupLab |
| Variable mesh Earth System Models on cloud platforms for high latitude volcanic eruptions; ***Kruger****, Storelvmo (MI* | |
| Modelling microscale atmospheric turbulence in the surface layer; ***Berntsen****, Lacasce (Utrecht Univ., Netherlands)* | |
| Role of anisotropic viscosity for computational modeling of convection in the Earth's mantle; ***Conrad****, Kiraly (ELSI* | |
| Computational modeling of hydrogen diffusion along slip planes in upper mantle silicates; ***Caracas****, Conrad (Montp* | |
| Strain localization in rocks: machine learning analysis of X-ray tomography data; ***Renard****, Cordonnier (ESRF)* | |
| Incorporating real-time datastreams in modeling the state of the Arctic cryosphere; ***Kääb****, Schuler (Geosci. Montpell* | |
| **Physics** | ***Secondments***: Thermo Fisher, Expert Analytics, Cognite, DNV GL, StartupLab |
| Frictional properties of surface structures generated by machine-learning; ***Malthe-Sørenssen****, Hjorth-Jensen (LTDS,* | |
| Mesoscale modelling of turbulence and swarming behaviour in soft active matter; ***Angheluta****, Malthe-Sørenssen (O* | |
| Measurement and mechanistic modelling of 3D cell migration; ***Dysthe****, Malthe-Sørenssen (Univ. Grenoble, France)* | |
| Quantum information theories and quantum many-body methods; ***Hjorth-Jensen****, Kvaal (Univ. Tennessee, Knoxv.,* | |
| **Astronomy** | ***Secondments***: LockheedMartin, JPL, Expert Analytics, StartupLab |
| Massive parallelization of end-to-end CMB analysis codes; ***Eriksen****, Wehus (JPL/Caltech, USA)* | |
| Simulations of galaxy formation: interplay between baryonic feedback and dark matter models; ***Shen****, Cicone (Cam* | |
| **Mathematics** | ***Secondments***: DNV GL, Expert Analytics, Torus Actions, StartupLab |
| Statistical learning method for chemistry applications; ***de Bin****, Ballcels (Univ. Bonn, Germany)* | |
| Deep reinforcement learning for industrial applications: taking flow control to the real world: ***Jensen****, Rabault (Lanc* | |
| Utilizing covariate information in recommender systems; ***Scheel****, Frigessi (Lancaster Univ., UK)* | |

**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci

# Selection process




**HORIZON 2020**
This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 945371.

CompSci