UNIVERSITETET I OSLO

Jobbnorge ID: 170651
Deadline: 6/6/2019
Website: http://www.uio.no/
Scope: Fulltime
Duration: Permanent

PhD Research Fellowship in Hydrometallurgy - two positions

Job description
Two positions as PhD Research Fellow in Hydrometallurgy available at Department of Chemistry, for period of three years. No one can be appointed for more than one PhD Research Fellowship period at the University of Oslo. Starting date no later than 01.10.2019

More about the position
Two PhD positions within hydrometallurgy is available in the Radiochemistry group headed by Prof. Jon Petter Omtvedt, who also will be main supervisor. The PhD positions are part of the PRICE-project funded by the Research Council of Norway together with 6 Norwegian industrial companies. The project also covers two other PhD projects at NTNU and thus have inter- and multidisciplinary aspects.

The PhD projects will be part of a collaboration consisting of NTNU, SINTEF Industry, Boliden Odda, K.A. Rasmussen, Yara International, NOAH, Glencore Nikkelverk, and Solberg Industry in addition to Department of Chemistry, University of Oslo. The PhD students, both at NTNU and UiO, will work together as a team and in close collaboration with the industry partners and SINTEF.

PRICE is an acronym for PRocess Industries in the Circular Economy. The main objective of the project is to build competence in hydrometallurgy and prepare the collaborating industrial partners to the "circular economy". That implies keeping products, components, and materials at their highest utility at all times and ensuring that production is environmentally friendly and sustainable. Thus the project intends to contribute to the reduction of negative environmental impacts from producing and recycling metals, but at the same time generate more value, both through cost savings and improved chemical processes.

The paths to achieving this can be different for the various industry partners, but four sub-objectives that is common for all or at least several partners can be defined:

1. Increased recirculation and recovery of metals and minerals - in general and between the participants in PRICE.

2. Understanding the behavior (speciation) of and recovery or removal of valuable elements and toxic components present in low concentrations in process solutions.

3. Use of electrochemical means to enhance separation of elements present in trace concentrations.

4. Value chain assessment to evaluate the impacts of circular economy value-chains through environmental modelling (LCA) and techno/economic optimization.

The candidates at UiO will use radioactive tracers and speciation methods (NMR, RAMAN, etc.) to investigate extraction and separation properties of certain aqueous phase systems of interest to our industrial partners. Previous experience/education in radiochemistry and/or hydrometallurgy is an advantage, but not required.

More information can be found on http://hydromet.no/price.html

Qualification requirements
The Faculty of Mathematics and Natural Sciences has a strategic ambition of being a leading research faculty. Candidates for these fellowships will be selected in accordance with this, and expected to be in the upper segment of their class with respect to academic credentials.

- Applicants must hold a Master's degree or equivalent in chemistry. Foreign completed degree (M.Sc.-level) must correspond to a minimum of four years in the Norwegian educational system
- Fluent oral and written communication skills in English
- Candidates without a Master’s degree have until 30 June, 2019 to complete the final exam

Desired qualifications:

- Since the fellow will work closely with Norwegian industry, oral communication skill in Norwegian or a Scandinavian language is an advantage
- Master degree in nuclear-, radio-, environmental-, or analytical chemistry will be considered as an advantage
- The candidate should, because of the close collaboration with industrial companies, have an interest in trying to combine solid fundamental research with practical innovation.

Grade requirements:

The norm is as follows:

- the average grade point for courses included in the Bachelor's degree must be C or better in the Norwegian educational system
- the average grade point for courses included in the Master's degree must be B or better in the Norwegian educational system
- the Master's thesis must have the grade B or better in the Norwegian educational system

http://www.mn.uio.no/english/research/phd/application/application.html

The purpose of the fellowship is research training leading to the successful completion of a PhD degree

We offer

- Salary NOK 449 400 - 505 800 per annum depending on qualifications and seniority as PhD Research Fellow (position code 1017)
- Attractive welfare benefits and a generous pension agreement
- Vibrant international academic environment
- Oslo's family-friendly surroundings with their rich opportunities for culture and outdoor activities

How to apply

The application must include

- Cover letter - statement of motivation and research interests
- CV (summarizing education, positions and academic work - scientific publications)
- Copies of the original Master's degree diploma, transcripts of records and letters of recommendation
- Documentation of English proficiency
- List of publications and academic work that the applicant wishes to be considered by the evaluation committee
- Names and contact details of 2-3 references (name, relation to candidate, e-mail and telephone number)

The application with attachments must be delivered in our electronic recruiting system (please follow the link "Apply for this job"). Foreign applicants are advised to attach an explanation of their University's grading system. Please note that all documents should be in English or a Scandinavian language.

Applicants may be called in for an interview.

Formal regulations

Please see the guidelines and regulations for appointments to Research Fellowships at the University of Oslo.

No one can be appointed for more than one PhD Research Fellowship period at the University of Oslo.

The fellowship requires admission to the PhD programme at the Faculty of Mathematics and Natural Sciences. The application to the PhD programme must be submitted to the department no later than two months after taking up the position. For more information see: https://www.mn.uio.no/english/research/phd/

According to the Norwegian Freedom and Information Act (Offentleglova) information about the applicant may be included in the public applicant list, also in cases where the applicant has requested non-disclosure.

The appointment may be shortened/given a more limited scope within the framework of the applicable guidelines on account of any previous employment in academic positions.

The University of Oslo has an agreement for all employees, aiming to secure rights to research results etc.

Contact information

For further information please contact: Professor Jon Petter Omtvedt, e-mail: j.p.omtvedt@kjemi.uio.no,
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or

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For question regarding our application system, please contact HR Officer, Ørjan Pretorius, orjan.pretorius@mn.uio.no

About the University of Oslo

The University of Oslo is Norway's oldest and highest rated institution of research and education with 28 000 students and 7000 employees. Its broad range of academic disciplines and internationally esteemed research communities make UiO an important contributor to society.

The Department of Chemistry is Norway's largest institution within research and education in chemistry. Our research excels internationally and we educate students to a wide variety of jobs in industry, academia, research institutions, schools and public administration. Our research ranges from the core topics of chemistry to applied science within in environmental, health, energy and materials. The Department has extensive contacts with industry, research and educational institutions at home and abroad. As partner in the Centre for Materials Science and Nanotechnology our researchers contributes to a significant interdisciplinary efforts in cooperation with the Department of Physics. The Department of Chemistry has its own school laboratory as a great resource for teachers, public outreach and the didactics of chemistry.

Additional information

Place of service:
Sem Sælands vei 24 0371 Oslo (Oslo Municipality)