

Jobbnorge-ID: 111592

Søknadsfrist: Closed

Nettside:

Omfang:

Varighet:

POST DOCTOR POSITION IN DFT MODELLING OF OXIDE INTERMEDIATE BAND SOLAR CELL MATERIALS

A two year Post doc position is available at the Department of Material Science and Engineering within electronic structure simulations of oxide intermediate band solar cell materials. The position is financed by the Research Council of Norway through the FRINATEK project «Oxide based intermediate band materials»

The main goal of the project is to gain fundamental understanding of how heavy co-doping of oxide materials can induce an intermediate band. This knowledge will be used to develop all-oxide intermediate band solar cells. While this project also has a substantial experimental part, the advertised post doc position is within Density Functional Theory (DFT) calculations of the electronic structure. The post doc will collaborate with both theorists and experimentalists. The research project is in collaboration with the Dept. of Physics at NTNU and the University of Linköping in Sweden.

The post doc will be part of a research group with strong traditions in research on functional oxides, including solar cell materials and DFT simulations. More information about the research group can be found at <http://www.ntnu.edu/mse/research/ceramics>

The applicant must hold a PhD in materials science, solid state chemistry or condensed matter physics. Extensive experience with DFT calculations on solids with periodic boundary conditions is a prerequisite for the position. Experience with modelling solar cell materials or optical properties, and with the VASP code, will be considered an advantage.

The candidate must document ability to work independently and in groups and an ability to publish scientific papers. The project will start as soon as possible after August 1 2015.

The appointment of the Postdoc will be made according to Norwegian guidelines for universities and university colleges and to the general regulations regarding university employees.

Post doc positions are normally remunerated in salary code 57 on the Norwegian Government pay scale, gross NOK 482 500 per year before tax. There is a 2% deduction for superannuation contribution.

The national labour force must reflect the composition of the population to the greatest possible extent. NTNU wants to increase the proportion of women in its scientific posts. Women are encouraged to apply. The position adheres to the Norwegian Government's policy of equal opportunity regardless of ethnicity, age and gender.

Further information regarding the position can be obtained by contacting Associate Professor Sverre Magnus Selbach, e-mail: selbach@material.ntnu.no, tlf. +47 73 59 40 99 or Associate Professor Turid Worren Reenaas, e-mail: turid.w.reenaas@ntnu.no.

The application should contain:

- CV including certificates from Bachelor, Master and PhD as well as Reference letters.
- List of publications with bibliographical references.
- Documentation of English language proficiency (e.g. TOEFL, IELTS, etc.) if English or a Scandinavian language is not the applicant's mother tongue.
- A statement on when the applicant can start in the position if selected.

Applications must be submitted electronically through www.jobbnorge.no.

Applications submitted elsewhere, e.g. by e-mail, will not be considered.

The reference number of the position is NT-14/15.

Application deadline is April 12, 2015.

Tilleggsinformasjon

Arbeidssted: