

Jobbnorge-ID: 79280
Søknadsfrist: Avsluttet
Nettside:
Omfang:
Varighet:

PhD positions - EU-project LinkedDesign (IVT-75/11)

EU-project LinkedDesign: Linked Knowledge in Manufacturing, Engineering and Design for Next-Generation Production

LinkedDesign addresses an integrated, holistic view on data, persons and processes across the product lifecycle as a vital resource for the outstanding competitive design of novel products and manufacturing processes. This platform federates all product lifecycle information relevant to drive engineering and manufacturing processes, independent of its format, location, originator, and time of creation. 13 European partners are involved in the project including NTNU and Aker Solutions. The project is coordinated by SAP, Europe's largest IT-company. The LinkedDesign project includes the best researchers in this area in Europe.

The Norwegian University of Science and Technology (NTNU) invites applicants for PhD fellowships and 1 Post doctoral/research fellow financed by The Strategic Area ICT at NTNU, the department of Computer and Information Science at NTNU, Faculty of Engineering Science and Technology (IVT) at NTNU and Aker Solutions.

Aker Solutions is a leading global oil services company that provides engineering services, technologies, product solutions and field-life solutions for the oil and gas industry. The company has over 10 years industrial experience with Knowledge Based Engineering, a technology where design experience is captured, stored and reused.

Aker Solutions has implemented Knowledge Based Engineering for specific engineering problems in a subset of the businesses in the company with good results. Scaling up, Aker Solutions wants to make reusable best practice design easily shared between locations and businesses.

To achieve this, Knowledge Based Engineering must be embedded into different engineering processes and integrate with a multitude of existing tools. The complexity of capturing, storing and reusing design experience must be reduced, and the transparency and traceability of the knowledge that drives design automation must be increased.

As a technology-driven company, Aker Solutions is proudly collaborating with NTNU to push technological innovation and develop a strong community of specialists and researchers.

Applicants for the PhD fellowships must have completed a master degree (MSc, MEng) or provide documentation of equivalent training in a field relevant to one or more of the following **profile areas**:

- Knowledge Based Engineering (KBE)
- Collaborative Engineering
- Data modelling
- Computer Science

A background from both engineering and computer science will be preferred.

The Strategic Area ICT at NTNU are using the referred EU project to establish a strong cooperation with the Faculty of Engineering Science and Technology at NTNU and this position is part of the pool of PhD/ Post doctoral positions governed by the Strategic Area.

Knowledge Based Engineering and Collaborative Engineering are key elements in NTNU's contribution to the LinkedDesign project and the Ph.d candidates should therefore have a primary focus in this area. The Ph.d candidates will build on the work done in the LinkedDesign project.

Regulations concerning the PhD program at NTNU can be found at <http://www.ntnu.no/nt/studier/phd>

Applicants for the PhD-positions are obliged to engage in an organized PhD training program, and appointment requires approval of the applicant's plan for a PhD study. A contract regarding the period of appointment and the obligations of the PhD fellow must be signed by the Fellow and the University.

In order to be accepted as a PhD student, the grades from the MSc program has to be sufficiently high (in Norway: B/2.5 or better), or the applicant has to document a similar level through later scientific work. Only applicants documenting excellent grades and performance will be considered. Candidates from universities outside Norway are kindly requested to send a Diploma Supplement or a similar document, describing details of the accomplished study program, the grade system and the rights for further studies associated with the obtained degree: http://ec.europa.eu/education/policies/rec_qual/recognition/diploma_en.html

PhD fellowships at NTNU are normally awarded for 3 years but can be extended to a total of 4 years, incl. 25 % (1 man-year) of teaching assistance at the bachelor and master degree level. These duties are commonly distributed over the 4 years.

Further information on these fellowships can be obtained from the Head of the Strategic Area ICT, professor John Krogstie, phone: +47 93417551 e-mail: John.krogstie@idi.ntnu.no,

Head of department, professor Jon Atle Gulla, phone: +47 91347759,
email: jag@idi.ntnu.no, or
Head of department, professor Ole Ivar Sivertsen, phone: +47 97472129,
e-mail: ole.ivar.sivertsen@ntnu.no, Department manager Jon Østmoen,
phone: +47 45411986, e-mail: jon.ostmoen@akersolutions.com

The appointment of the fellowships will be made according to national guidelines for appointment of PhD fellows at universities and university colleges and to the general regulations for university employees in Norway.

The PhD fellowships are placed in salary code 1017, with a start salary at level 48 on the Norwegian Government pay scale, i.e. NOK 391 100 per year. The salary is subject to normal taxation by city and government authorities, as well as a statutory 2 % deduction for contribution to the Norwegian government pension scheme.

The application must include a full *curriculum vitae* with certified information on the candidate's prior training, exams, and working experience. Moreover, we request that the candidates contact a relevant research group at NTNU to define a draft project plan within one or more of the above four profile areas. A brief outline of the project, signed by both the applicant and his/her prospective supervisor (faculty member in that research group) must be included in the application. Applications without such a signed outline will not be considered.

The positions adhere to the Norwegian Government's policy of balanced ethnicity, age and gender. Persons with immigrant background are encouraged to apply. A NTNU objective is to increase the number of females in scientific positions. Female applicants are therefore encouraged to apply. Knowledge of Norwegian and English will be emphasized because of potential teaching tasks.

Within the application deadline, applicants should submit the application, a signed project outline, a CV, certified copies of certificates of education and other relevant documents.

Applications should be submitted electronically through this page.

Reference number is **IVT-75/11** for the PhD positions.

Application deadline: 06.01.2012.

Tilleggsinformasjon

Arbeidssted: