Senior Developer in Research Infrastructure

A permanent position is open in the Scientific Computing group at the IT-department, University of Bergen. The position is connected to development and operations of the research e-Infrastructure. The main tasks of the position is to port code to GPGPU and accelerators and to implement new algorithms on this hardware. You will work together with the research groups developing the software, hardware vendors and Sigma2.

The IT-department’s mission is to deliver high quality IT services and contribute to achieving UIB goals. We deliver a wide range of the IT services in development, operations, governance and user support. The IT department has around 110 employees. The IT department is prioritizing continuous improvement via Lean methodology and follows ITIL framework. We are increasingly working with projects and applying standard methods and frameworks for this.

**Duties:**

- Porting Scientific Software code to GPGPUs and accelerators
- Being part of the team that builds and operates the national HPC and storage systems (FRAM (35 000 cores), Saga (10 000 cores), Betzy (172 000 cores), NIRD (11 PiB))
- Involvement in local, national and international projects and collaborations such as PRACE, EuroHPC and NEIC
- Taking part in the group’s HPC user support activities
- Developing internal and external service documentation
- Organizing and conducting training courses

**Qualifications and personal attributes:**

- Deep knowledge of accelerator coding, code porting and optimization
- Proficiency in one or several of the following programming languages: C, C++, Fortran
- Very high programming competence within relevant fields
- Experience with the MPI communication standard in the context of accelerators
- Experience with HPC, either as a user or an administrator
- Knowledge of Linux-based HPC systems and batch queuing systems
- Experience with the operation and debugging of complex IT systems
- Fluent English, both oral and written
- Higher education, minimum Master’s level, Phd level encouraged. Formal education can be compensated by documented relevant work experience
- Norwegian language is not a requirement but is an advantage. For a successful candidate without knowledge of Norwegian language it will be required to take and successfully pass at least level 2 of the Norwegian language course at UiB within 2 years

The following aspects will be considered in addition to the requirements:

- Experience with OpenCL, CUDA, OpenACC
- Experience with GPU, FPGA, ASICs, IPU, new accelerators (EPI)
- Knowledge of NUMA
- Experience with Python and Julia
- Experience with version control
- Experience with coordinating developers
- Good communication skills in both written and oral
- Experience with giving courses

**Personal skills**

- Ability to work independently and in teams.
- Organized and structured
- Service oriented attitude

**We can offer:**

- A good and challenging international working environment with professional challenges and opportunities for personal and skills development
- Position as overingeniør (code 1087) or senioringeniør (code 1181) depending on qualification, 53-71 (currently kr 472 000- 655 400), or 58-71 (currently kr 513 600- 655 400). In the case of a highly qualified applicant, a higher salary may be considered
- Enrolment in the Norwegian Public Service Pension Fund
- Good welfare benefits
General information:

Detailed information about the position can be obtained by contacting: Head of infrastructure Jan Kristian Walde Johnsen (jan.johnsen@uib.no, mobile 917 15 378) or Head of scientific computing Alexander Oltu (alexander.oltu@uib.no, mobile 468 19 137).

The one who will be appointed may be given other duties in the department’s work tasks.

The state labour force shall reflect the diversity of Norwegian society to the greatest extent possible. People with immigrant backgrounds and people with disabilities are encouraged to apply for the position.

We encourage women to apply. If multiple applicants have approximately equivalent qualifications, the rules pertaining to moderate gender quotas shall apply.

We encourage recently graduated students with strong programming skills and experience with GPU to apply.

Information about applicants may be made public even if the applicant has asked not to be named on the list of persons who have applied. The applicant must be notified if the request to be omitted is not met.

For further information about the recruitment process, click here.

About University of Bergen:

The University of Bergen is a renowned educational and research institution, organised into seven faculties and approximately 54 institutes and academic centres. Campus is located in the centre of Bergen with university areas at Nygårdsheyden, Haukeland, Marineholmen, Møllendalsveien and Årstad.

The Central Administration provides advice and support to management and faculties at the University of Bergen. The Central Administration consists of seven departments. Read more about the IT division here.

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