

## University of Amsterdam

The University of Amsterdam (UvA) is a university with an internationally acclaimed profile, located at the heart of the Dutch capital. As well as a world centre for business and research, Amsterdam is a hub of cultural and media activities. The UvA is a member of the League of European Research Universities.

The Faculty of Science at the UvA is one of Europe's foremost institutions of higher education and research in its chosen fields of specialization. It plays an active role in international science networks and collaborates with universities and industry. The Faculty has approximately 2,000 students and 1,500 staff members spread over four departments and ten research institutes. Each institute has its own research programme, a substantial part of which is externally funded by the Netherlands Organization for Scientific Research (NWO), the Dutch government, the EU and various private enterprises.

In 2010, the Faculty will relocate to the Science Park Amsterdam. Ambitious building projects are paving the way for this relocation. The move will make the Park one of the largest centres of academic research in the Netherlands.

Within the Informatics Institute, the Computer Systems Architecture (CSA) group has a position for a

### PhD student

Full time for a total of four years

For both internal and external candidates

This is a full-time, paid position, funded by the EU project Apple-CORE and promoted by Prof. Jesshope, head of the CSA group and coordinator of that project. This is one of a number of funded projects in this successful group helping to develop the next generation of computer systems, which will surpass the current trend for multi-core chips and bring about a revolution in many core CPUs. CSA is working on both simulators and soft-core prototypes of its microthreaded processor designs and is also working on compilers and operating systems within the Apple-CORE project. The goal is to build many-core chips with thousands, maybe tens of thousands of microthreaded processors, that can execute existing binary code and which will run legacy operating systems. This is a demanding and exciting challenge.

### Tasks

The successful applicant will work on a parallelising compiler in conjunction with our Greek partner in the Apple-CORE project within a well-motivated team at Amsterdam. He or she will be expected to travel for collaboration and to present results at conferences. It is expected that the appointment will lead to a PhD thesis.

### Requirements

- A master's degree (or equivalent) in Computer Science or Engineering
- Ability to operate in an international research team.
- Fluency in oral and written English.

### More information

For more details concerning the projects and work, please see the CSA and Apple-CORE web sites, read the group's publications or contact Prof. C.R. Jesshope by email at: [jesshope@science.uva.nl](mailto:jesshope@science.uva.nl).

## Appointment

This is a full-time appointment (38 hours a week) for a total of four years: an initial period of eighteen months, followed by a further two and a half years subject to a positive appraisal. It is expected to result in a PhD thesis. The gross monthly salary is fixed in accordance with the Dutch University regulations for academic personnel and ranges from Euro .... in the first year to a maximum of Euro ... in the fourth year.

## Job application

Applications should include a letter of motivation and a curriculum vitae. Please include the names and contact information of two referees. Applications, quoting the vacancy number in the subject line, may be emailed to [jesshope@science.uva.nl](mailto:jesshope@science.uva.nl). Closing date is open

Refer to

[Informatics Institute](http://www.science.uva.nl/ii) (<http://www.science.uva.nl/ii>)

[CSA website](http://www.science.uva.nl/research/csa/) (<http://www.science.uva.nl/research/csa/>)

[UvA Staff website](http://staff.science.uva.nl/~jesshope/papers.html) (<http://staff.science.uva.nl/~jesshope/papers.html>)

[Faculty of Science](http://www.science.uva.nl/) (<http://www.science.uva.nl/>)

[Salary scales Collective Employment Agreement \(CAO-VSNU\) \(Dutch language\)](#)

[Academic vacancies](#)