



*Utrecht University's Faculty of Geosciences offers education and research concerning the geosphere, biosphere, atmosphere and anthroposphere. With a population of 2,200 students (BSc and MSc) and 575 staff, the faculty is a strong and challenging organisation. The faculty is organised in four departments: Earth Sciences, Physical Geography, Innovation & Environmental Sciences, and Human Geography & Urban & Regional Planning.*

The Department of Earth Sciences conducts teaching and research across the full range of the solid Earth and environmental Earth sciences, with activities in almost all areas of geology, geochemistry, geophysics, biogeology and hydrogeology. The Department hosts an international group of about 100 PhD's and postdoctoral researchers. It hosts a range of excellent laboratory facilities. The Department of Earth Sciences is currently looking for a:

## **Postdoc in Reactive Transport Modeling**

### **Project title:**

**"Modeling the phosphorus cycle in modern and ancient sediments: from dates to rates".**

Phosphorus (P) is a key nutrient for phytoplankton in the ocean. A strong positive feedback exists between marine P availability, primary production and ocean anoxia: increased production leads to ocean anoxia, which, in turn, decreases the burial efficiency of P in sediments and therefore increases the availability of P and production in the ocean. This study focuses on quantifying sedimentary P cycling and burial for various modern and ancient marine systems using reactive transport modeling.

*The position is financed through the European Research Council (ERC) and is part of a Starting Grant awarded to Caroline Slomp on "Phosphorus dynamics in low-oxygen marine systems: quantifying the nutrient-climate connection in Earth's past, present and future".*

### **Qualifications:**

We are looking for a highly motivated individual with experience in mathematical modeling and a PhD degree in geochemistry, geology, oceanography, environmental sciences or a related field. He/she should communicate easily in English, both verbally and in writing. Candidates should be able to work in a team, but independently.

### **Terms of employment:**

The successful candidate will be offered a full-time postdoc position for **2.5 years**.

Employment conditions are based on the Collective Labour Agreement of the Dutch Universities. The gross monthly salary is dependent on experience and will start between € 2.744 and 3.755 euro per month. The salary is supplemented by a holiday allowance of 8% per year and a year-end bonus of 8.3% (salary rates per 1-10-2011). We also offer a pension scheme, a health insurance allowance and flexible employment conditions.

### **Further details:**

For informal enquiries, contact dr. Caroline Slomp, e-mail: [c.p.slomp@uu.nl](mailto:c.p.slomp@uu.nl).

You may also wish to visit the Faculty website at: <http://www.geo.uu.nl/ivau>.

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**Please, apply before November 28, 2011. The position will be open until filled, but we plan a first evaluation of applications on December 1, 2011. The preferred starting date is March 1, 2012 or a.s.a.p. thereafter. Please, mention where you originally saw our advertisement.**

***How to apply:***

Visit <http://www.geo.uu.nl/vacancies>, find the equivalent of this advertisement and fill in the application form. Please, attach your motivation for the position, a statement of your research interests, a curriculum vitae, and the names and contact addresses of two referees (with e-mail contact addresses).

Application deadline is November 28, 2011.

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