

## Θέση PhD με υποτροφία – Civil Engineering, University of Nottingham

### PhD Studentship: Utilization of Sustainable Grouting Alternatives to Fly Ash in Grouting Applications

#### Project description

Chemical grouts used to stabilize old mine workings are made up of a combination of Pulverised Fuel Ash (PFA) and cement. PFA is a by-product from coal-fired power stations. In 2015 the UK government was the first in the world to announce its commitment to phase out the use of unabated coal power generation by the end of 2025. This closure of coal-fired stations will cease the production of PFA, leaving no other option but the investigation of substitute materials that can be used to supplement grout mixes.

This project aims to:

- Identify eco-efficient materials that may be used as supplementary addition to grout mixes
- Test the performance of alternative materials and compare the results to standard PFA:Cement mixes

#### Application details

The position is available to start in October, December, February, April or July (subject to date of application)

Duration: 3 years

Closing date: open until filled

#### Eligibility

Applicants should have, or expect to obtain, a 1<sup>st</sup> class or 2.1 honours degree (or international equivalent) in Civil Engineering, Materials Science, Physics or a related subject. A relevant Master degree in these areas would be advantageous.

If English is not your first language, you must provide evidence that you meet the University's minimum [English Language requirements](#).

Students with experience or a willingness to learn software such as MATLAB, Plaxis and Abaqus are encouraged to apply.

Due to funding restrictions this position is **only available for UK or EU candidates**.

#### Funding

Eligible for Home / EU candidates. This project will include the payment of tuition fees as well as a stipend equivalent to RCUK rates (currently at £15,009 p.a. tax free for 2019/20) awarded to the suitable candidate.

### **How to apply**

Informal contact can be sent to Dr Athina Grizi ([A.Grizi@nottingham.ac.uk](mailto:A.Grizi@nottingham.ac.uk)) or Dr Georgia Thermou ([Georgia.Thermou@nottingham.ac.uk](mailto:Georgia.Thermou@nottingham.ac.uk)) before submitting an online application. Please send a cover letter and a copy of your CV with your up to date relevant experience.

Online application can be made via <http://www.nottingham.ac.uk/pgstudy/how-to-apply/how-to-apply.aspx>. Please quote the studentship reference and Dr Athina Grizi.

**When applying for this studentship, please include the reference number (beginning ENG) within the personal statement section of the application. This will help in ensuring your application is sent directly to the academic advertising the studentship.**

### **Contact details (Informal enquiries in Greek or English)**

Name: Dr Athina Grizi (Αθηνά Γκριζίη)

Email: [a.grizi@nottingham.ac.uk](mailto:a.grizi@nottingham.ac.uk)

**Please see [here](#) for the international equivalent for students from Greece for admission to the University of Nottingham.**