

## Candidate Brief

# Research Fellow

**Reference:** R180353

**Salary:** Grade 8, £32,548 per annum

**Contract Type:** Fixed Term (12 months)

**Basis:** Full Time

**Closing Date:** 23.59 hours BST on Tuesday 11 September 2018

**Interview Date:** To be confirmed

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# Job description

## **Job Purpose:**

The successful applicant will join an established theoretical/experimental group working on the applications of the machine learning methods and, partially, nonlinear Fourier transform for signal modulation, transmission and processing, for the fibre nonlinearity mitigation and the development of the new generation of extra-high-capacity optical networks. The project implies the high-level mathematical expertise of the researcher and involves interaction with mathematicians, theoretical physicist, and optical engineers/industrial partners. The PhD student co-supervision, mentoring, and performance monitoring, will constitute an important part of the position duties.

## **Research**

- ▶ To develop research objectives, projects and proposals for personal/joint research programmes consistent with the priorities and strategy of the School, with the assistance of a mentor if required.
- ▶ To write up and publish the outcomes of research in good quality publications.
- ▶ To present papers, posters, reports at seminars, conferences etc.
- ▶ To collaborate in research initiatives with colleagues in and beyond the School as appropriate.
- ▶ To identify sources of funding, develop and submit funding applications, securing external research funding.
- ▶ Where appropriate to School/University strategy and subject discipline, to participate in and develop external networks.
- ▶ To supervise and manage research projects
- ▶ To supervise PhD and other postgraduate students to completion.
- ▶ To coach junior colleagues in research.

## **Teaching**

- ▶ To undertake a limited amount of teaching with students at a range of levels, achieving good student feedback through critical reflective practice,
- ▶ To contribute to the assessment of student knowledge and the supervision of student projects.
- ▶ To assist in the development of student research skills.

## **External engagement**

- ▶ To represent the interests of the subject and School via activities to raise the regional, national and international profile, particularly with the professions, schools and businesses.
- ▶ To forge relationships with the professional bodies and other bodies representing relevant professional interests.

## **Citizenship**

- ▶ To carry out specific (School) roles and functions as may be reasonably required e.g. Head of Department, Programme Director, Personal Tutor, Admissions Tutor.
- ▶ To take part in the meetings and activities of the Academic Department and, on occasion, act as Chair of one or more of the School committees, these responsibilities being equitably distributed across the academic staff.
- ▶ To demonstrate the University's leadership values through own actions and behaviour.
- ▶ To undertake such other duties as may be reasonably requested and that are commensurate with the nature and grade of the post.

### **Additional responsibilities**

- ▶ Engage in continuous personal and professional development in line with the demands of the role, including undertaking relevant training and development activities to develop themselves and support the development of others.
- ▶ Ensure and promote the personal health, safety and wellbeing of staff and students.
- ▶ Carry out duties in a way which promotes fairness in all matters and which engenders trust.
- ▶ Promote equality of opportunity and support diversity and inclusion as well as working to support the University's environmental sustainability agenda and practices.

## Person specification

	Essential	Method of assessment
<b>Education and qualifications</b>	A PhD in a relevant subject (or submitted thesis)	Application form
<b>Experience</b>	<p>Experience of initiating and conducting research up to doctoral level</p> <p>Experience of writing up/contributing to the write up of reserch for high qualty publications.</p> <p>Experience of producing papers, posters, reports presenting at seminars, conferences etc.</p> <p>Experience of positive collaboration within and outside of candidate's immediate research team.</p> <p>Supervising other personnel involved in the project</p>	<p>Application form, interview and presentation</p> <p>Application form and interview</p>
<b>Aptitude and skills</b>	<p>Ability to present data in both a clear and concise manner that is visually appealing.</p> <p>Ability to prepare written communications to a high standard</p> <p>Ability to develop and maintain a research programme and to publish in high quality publications.</p> <p>Ability to harness IT as a research and teaching tool</p> <p>A willingness to undertake further training as appropriate and to adopt new procedures as and when required.</p>	<p>Application form, interview and presentation</p> <p>Application form and interview</p>

## How to apply

You can apply for this role online via our website [www.aston.ac.uk/jobs](http://www.aston.ac.uk/jobs). Applications should be submitted by 23.59pm on the advertised closing date. All applicants must complete an application form, along with your CV.

Any CV sent direct to the Recruitment Team and Recruiting Manager will not be accepted. If you require a manual application form then please contact the Recruitment Team via [recruitment@aston.ac.uk](mailto:recruitment@aston.ac.uk).

## Contact Information

### Enquiries about the vacancy:

Name: Sergei Turitsyn

Job Title: Professor

Email: [s.k.turitsyn@aston.ac.uk](mailto:s.k.turitsyn@aston.ac.uk)

### Enquiries about the application process, shortlisting or interviews:

Recruitment Team via [recruitment@aston.ac.uk](mailto:recruitment@aston.ac.uk) or 0121 204 4500.

## Additional Information

Visit our website [www.aston.ac.uk/hr](http://www.aston.ac.uk/hr) for full details of our salary scales and benefits Aston University staff enjoy

**Salary Scales:** <http://www.aston.ac.uk/staff/hr/payroll-pensions-and-benefits/salary-scales/>

**Benefits:** <http://www.aston.ac.uk/staff/hr/payroll-pensions-and-benefits/>

**Working in Birmingham:** <http://www.aston.ac.uk/birmingham/city-living/>

**Employment of Ex-Offenders:** Under the Rehabilitation of Offenders Act 1974, a person with a criminal record is not required to disclose any spent convictions unless the positions they applying for is listed an exception under the act.

**Eligibility to work in the UK:** Candidates who are not citizens of the United Kingdom, or another EEA member country, should check their eligibility to enter or remain the UK in advance of making any job application via the UKVI website <https://www.gov.uk/browse/visas-immigration/work-visas>. Before applying you should ensure that you meet the requirements, including meeting the English language standards. If you do not meet the eligibility criteria, any application for a work visa would be unsuccessful

**Equal Opportunities:** Aston University promotes equality and diversity in all aspects of its work. We aim to ensure, through our admissions policies for students, and our staff recruitment and selection processes that we encourage applications from all groups represented in the wider community at a local, national and international level.

The University will endeavour not to discriminate unfairly or illegally, directly or indirectly, against student or potential students, staff or potential staff. This commitment applies to all functions of the University and to any stage of an individual's career.

An Equal Opportunities Monitoring Form is included within the application form.

**Data Protection Act 1998:** Your application will only be used to inform the selection process, unless you are successful, in which case it will form the basis of your personal record with the University which will be stored in manual and/or electronic files. Information in statistical form on present and former employees is given to appropriate outside bodies.

Data you provide on the Equal Opportunities Monitoring Form will be included in a general database, for statistical monitoring purposes, enabling the University to monitor the effectiveness of its Policy, Codes of Practice and Guidelines on Equal Opportunities in Employment. Individuals will not be identified by name



Full details of our terms and conditions of service and associated policies and procedures are available online at [www.aston.ac.uk/hr](http://www.aston.ac.uk/hr)

