

# Postdoctoral Research Associate



**Reference: 0213-24** 

**Grade: 8** 

Salary: £37,099 to £40,521, per annum, depending on experience

**Contact Type: Fixed term (10 months)** 

**Basis: Full time** 

### **Job description**

#### Job Purpose:

We are seeking to appoint a Postdoctoral Research Associate (PDRA) to work in the field of mode-locked fibre lasers at the Aston Institute of Photonic Technologies (AIPT). You will join Dr Auro M. Perego, RAEng Research Fellow at AIPT, and you will work in the framework of an EPSRC project collaborating with academic partners in Europe also through research visits to their labs.

The successful candidate will have completed (by the start date of the contract) a PhD in Physics or Engineering and will be able to perform independent lab activities with mode-locked fibre lasers. Previous experience in experimental work with optical frequency combs, mode-locked fibre lasers and nonlinear fibre optics will be a plus. Previous experience in numerical modelling of fibre lasers and optical resonators will be desirable.

By joining AIPT you will be part of one of the largest research centres in photonics in UK and in Europe. AIPT is an internationally recognised institution at the forefront of research in several fields of photonics including optical communications, optical sensing and signal processing, fibre lasers, semiconductor

#### Main duties and responsibilities

- ► To perform experimental lab work in mode-locked fibre laser lab relevant to the PI research projects and directions.
- ► To perform numerical simulations, work of mode-locked lasers to explain experimental results.
- ▶ To travel for research visits to project partners and collaborators overseas.
- ▶ To collaborate with the PI other team members where needed
- To present scientific results to international conferences and workshops.
- ► To help group PI in PhD student supervision.
- ► To help group PI grant proposals writing.
- ▶ To represent when needed the PI and the group work in internal and external meetings.
- ► 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 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.
- ► To supervise and manage research projects
- ► 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.

#### **Additional Responsibilities**

- ► To take part in the meetings and activities of the Academic Department
- ▶ 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.

- ► To 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
- ▶ To ensure and promote the personal health, safety and wellbeing of staff and students
- ▶ To carry out duties in a way which promotes fairness in all matters, and which engenders trust
- ► To 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
Education and qualifications	Hold a PhD degree in photonics/electrical and electronic engineering/laser physics (by the contract start date)	Application form
Experience	Experience in experimental work in fibre lasers or fibre optics.  Evidence/experience of publishing in reputed journals and evidence of academic and professional achievement.  Experience of writing up/contributing to the write up of research for high quality publications.  Experience of positive collaboration within and outside of candidate's immediate research team.	Application form and interview
Aptitude and skills	Ability to work in a team and interact with international partners and collaborators.  Possess strong analytical and research skills.  Ability to present data in both a clear and concise manner that is visually appealing.  Able to work independently while taking heed of advice.  Ability to prepare written communications to a high standard and communicate effectively and enthusiastically verbally.	Application form and interview

	Desirable	Method of assessment
Education and qualifications	Working experience as a postdoctoral research associate in a photonics lab.	Application form
Experience	Numerical simulations of fibre lasers and optical resonators.  Experience in experimental work in optical frequency comb technology.	Application form and interview

## How to apply

You can apply for this role online via our website <a href="https://www2.aston.ac.uk/staff-public/hr/jobs">https://www2.aston.ac.uk/staff-public/hr/jobs</a>.

Applications should be submitted by 08/05/2024 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 jobs@aston.ac.uk.



#### Contact information

#### **Enquiries about the vacancy:**

Name: Dr Auro Perego Job Title: Research Fellow Email: a.perego1@aston.ac.uk

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

Recruitment Team via jobs@aston.ac.uk or 0121 204 4500.

### **Additional information**

Visit our website <a href="https://www2.aston.ac.uk/staff-public/hr">https://www2.aston.ac.uk/staff-public/hr</a> for full details of our salary scales and benefits Aston University staff enjoy.

Salary scales: https://www2.aston.ac.uk/staff-public/hr/payroll-and-pensions/salary-scales/index

Benefits: Benefits and Rewards | Aston University

Working in Birmingham: <a href="https://www2.aston.ac.uk/birmingham">https://www2.aston.ac.uk/birmingham</a>

**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 are applying for is listed an exception under the act.

**Eligibility to work in the UK**: You should ensure that you meet the eligibility requirements, including meeting the <a href="English language standards">English language standards</a>. If you do not meet the eligibility criteria, any application for a work visa would be unsuccessful. Please see UKVI guidance for further information on eligibility, knowledge of English requirements and approved test centres <a href="https://www.gov.uk/tier-2-general">https://www.gov.uk/tier-2-general</a>

With the end of free movement for EU/EEA/Swiss nationals from 1 January 2021, the UK's new immigration system applies to all non-UK/Irish nationals who require a visa.

Where an individual is subject to UK immigration control, they will require a visa to work in the UK.

The following individuals do not need a visa for the UK, <u>but</u> do still have to prove their right to work before employment can commence:

- British Citizens or Irish Nationals
- EU/EEA/Swiss nationals with Settled or Pre-settled status under the EU Settlement Scheme
- Non-EEA nationals with Indefinite Leave to Remain/Settlement in the UK

The main routes available for those who need a visa to work in the UK are **Skilled Worker**, **Global Talent**, and the **Graduate Route**.

You can find further information about each of these visa routes on our candidate immigration page.

If you will conduct research in your role, you may need to apply for and obtain ATAS clearance before Aston can issue a Certificate of Sponsorship for your visa application. Please see below for further details.

Academic Technology Approval Scheme (ATAS): If you will conduct research in your role and you apply for a Skilled Worker or Temporary Worker GAE visa, you may need to apply for and obtain ATAS clearance before Aston can issue a Certificate of Sponsorship for your visa application.

This process can take at least 6 weeks to process, and Aston will consider this when confirming your expected start date. Processing times will increase between April and September and can longer to complete.

There is no fast-track option available. ATAS certificates will be processed in order of receipt.

You can find more information about ATAS on our candidate immigration page.

#### Before you start and Right to Work

#### 90-day entry vignette

If you have applied for your visa outside of the UK, you will receive a vignette in your passport which is usually valid for 90 days. Please make sure to travel to the UK within the 'valid from' and 'valid to' dates on this visa. If you entered the UK before or after these dates, you would not 'activate' the visa and you would need to leave and re-enter the country.

You will also receive a decision letter confirming details about your immigration permission and where to collect your Biometric Residence Permit.

#### Cost of Living - Estate and Letting Agents

There are numerous Estate and Letting Agents in and around Birmingham that can help you find suitable accommodation. The <u>Midland Landlord Accreditation Scheme</u> provides a list of professional agencies and landlords who have applied with them for accreditation. Whilst accreditation is not a guarantee of quality, it provides some reassurance about the standard of the service they provide.

You can also use property search websites such as Rightmove or Zoopla.

**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 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.

Data Protection: Your personal data will be processed in compliance with the Data Protection Act 2018 and the General Data Protection Regulation ((EU) 2016/679) ("GDPR"). The University's Data Protection Policy and Privacy Notices, including the Job Applicant Privacy Notice can be found at <a href="https://www2.aston.ac.uk/data-protection">https://www2.aston.ac.uk/data-protection</a>. 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.

Full details of our terms and conditions of service and associated policies and procedures are available online at <a href="https://www2.aston.ac.uk/staff-public/hr/policies">https://www2.aston.ac.uk/staff-public/hr/policies</a>

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