



## Knowledge Transfer Partnerships

Knowledge Transfer Partnerships bring together universities and business to work together on a development project that is strategically important to the Organisation's future.

KTP projects are delivered by recent graduates who enhance their career prospects by benefiting from business based training and personal and professional development. You will;

- Work on a real project to develop and deliver change in an organisation
- Earn a competitive salary whilst receiving practical and formal management training and development
- Gain valuable experience and marketable, highly transferable skills.
- Enjoy the potential of a permanent post with the company

Further information about KTP and the advantages of being a KTP Associate can be found at: <http://ktp.innovateuk.org/>

## KTP ASSOCIATE – Hydrogen purification for clean energy

Starting salary up to £30,000 per annum

This 3-year post has been created as a result of a Knowledge Transfer Partnership (KTP) between Lancaster University's Department of Engineering and NanoSUN Ltd (<https://nanosun.co.uk>). On completion of a successful project there may be opportunities for on-going employment within the company partner.

**NanoSUN** is an exciting new company aiming to accelerate fuel cell use by providing innovative solutions to hydrogen storage, refuelling and purification in response to customer demands. NanoSUN's vision is of hydrogen being the major energy vector in the drive for clean, sustainable energy. A key customer requirement is to make hydrogen fuel available conveniently at a competitive price and suitable purity. NanoSUN have identified the need for low cost, point of use upgrading of hydrogen to fuel cell grade. This KTP aims to develop a suitable hydrogen purifier to meet this need.

**Lancaster University** is a top-10 university in the UK and in the top-125 in the World. Engineering at Lancaster is consistently in the top-5 with particularly high rankings for student satisfaction. The department has grown significantly in recent years to twice its size. Research foci within the Department include nuclear engineering, clean combustion, hydrogen and fuel cells, particle accelerators, energy policy and renewable energy, among other areas.

As **KTP Associate** you will be employed by Lancaster University, but will be based at NanoSUN, working both in their main office in Lancaster and their co-location space at Lancaster University. You will lead this exciting project which aims to develop point-of-use purifiers for hydrogen fuel. The aim is to develop a low-cost, long-lasting, simple to operate purifier which can be incorporated into hydrogen fuelled equipment, thus allowing customers to minimise fuel costs by accessing non-fuel cell grade hydrogen. You will work closely with and be supported by academics from the Department of Engineering and the senior management team at NanoSUN.

For this post, the ideal candidate would have a MEng in Chemical Engineering, Chemistry or Materials Science (essential), laboratory research experience, and preferably a relevant PhD. Ideally, the candidate should have good knowledge of adsorption and porous materials, laboratory experience in synthesis and characterisation of porous materials, and experience with gas sorption experiments. The candidate would ideally have design skills and an engineering mind-set of design, conceive, test and operate, and he/she should be comfortable working both in an academic research environment and in a technological start-up. The required skillset includes good team-working and communication skills, good presentation skills, excellent oral and written English, and a rigorous and professional attitude.

In addition to a competitive salary, the reward package includes an additional £6,000 personal training and development budget offering excellent opportunities to further your professional development and support your career progression. You will be encouraged to present papers at national and international conferences and, when applicable, publish your research in journal articles.

To apply online for this position visit <https://hr-jobs.lancs.ac.uk/Vacancy.aspx?id=4858&forced=2>

The closing date for applications is 25<sup>th</sup> October and interviews will be held in November (date TBA).

Informal enquires should be directed to Dr Nuno Bimbo (Lancaster University) Tel: 01524 595063 / [n.bimbo@lancaster.ac.uk](mailto:n.bimbo@lancaster.ac.uk) or Dr Joe Hobbs (NanoSUN Limited) Tel: 01524 63517 / [joe.hobbs@nanosun.co.uk](mailto:joe.hobbs@nanosun.co.uk)