

Postgraduate Scholarship Information Sheet

Scholarship Title	Optimisation of piezoelectric-pneumatic jetting process for fabrication of printable electronics
Reference number	WD_2023_71_WSCH_SPONS
Supervisor(s)	Dr. Ramesh Raghavendra (SETU Waterford) Dr. Ronan McCann(SETU Waterford)
Research Group	SEAM / I-Form
Department /School/Faculty	Department of Engineering Technology
Duration	4 Years(48 months)
Status: Full-time	Full time
Funding information	SFI I-Form Centre
Value of the scholarship per year for four years	Stipend: €22,000 Fees, up to a maximum of €5,750
Closing date and time	19th June 2024@ 4PM Irish Time
Interview date	TBC
PhD commencement date	2nd September 2024
P Code	P2590

Post summary

Fully Funded PhD Scholarship in Printed Electronics field to capture new insights on the influence of processing variables and materials properties on end-product characteristics using novel materials at South East Applied Materials (SEAM) Research Center, School of Engineering, South East Technological University (SETU) Waterford and I-Form Centre for Advanced Manufacturing.

Background & Role

The I-Form Advanced Manufacturing Research Centre (SETU forms part of) has been established by Science Foundation Ireland (SFI) to deliver high-impact, innovative science and engineering research. I-Form has particular focus on additive manufacturing ('3D printing') combined with advanced digital technologies applied in a precision manufacturing environment, see <https://www.iform.ie/>. The Centre brings together a multi-disciplinary team of over 100 researchers in manufacturing engineering, materials and data science, in a cross-disciplinary and translational research environment. I-Form operates in close collaboration with a global network of companies and collaborators.

Person specification

Qualifications

Essential

- Have attained, or expect to attain by commencement date, an Honours Degree (minimum 2:1) in physics,

materials engineering or other cognate discipline.

- Strong background in materials characterisation and spectroscopy.

Desirable

- Experience with nanomaterials and deposition technologies.
- Experience with electrical characterisation techniques.

Knowledge & Experience

Essential

- Some knowledge of inkjetting processes and a good understanding of relevant analytical characterization techniques.
- Strong analytical and problem solving skills.

Desirable

- Some experience of working on research projects.
- Some hands-on experience in the use of experimental equipment.

Skills & Competencies

Essential

- Applicants whose first language is not English must submit evidence of competency in English, please see [SETU's English Language Requirements](#) for details.

Desirable

- Excellent written and verbal communication skill
- Willingness and motivation to learn and experience new theoretical and technological areas.

Further information

For any informal queries, please contact either Dr. Ramesh Raghavendra (Ramesh.Raghavendra@setu.ie) or Dr. Ronan McCann (ronan.mccann@setu.ie).

For queries relating to the application and admission process please contact the Postgraduate Admissions Office via email rpgadmissions.wd@setu.ie or telephone +353 (0)51 302883.

University Website <https://www.setu.ie>

Application procedure

Download the [Research Postgraduate Application Form](#) and return completed applications to rpgadmissions.wd@setu.ie quoting **WD_2023_71_WSCH** in the email subject line.

Please note that paper submissions will not be accepted.

The Institute may decide to interview only those applicants who appear from the information available, to be the most suitable, in terms of experience, qualifications and other requirements of the post.

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