



Technological University of the Shannon: Midlands Midwest

Ollscoil Teicneolaíochta na Sionainne:
Lár Tíre Iarthar Láir

TUS Seeking International Postdoctoral Researcher

Sustainable Polymer Chemistry for Bio-Based Coatings, Adhesives and Thermosets

Sustain-FIT Marie Skłodowska-Curie Fellowship · Technological University of the Shannon

The Technological University of the Shannon is seeking an international postdoctoral researcher and an Irish industry partner for a Sustain-FIT Marie Skłodowska-Curie fellowship in sustainable polymer chemistry.

The project will focus on developing bio-based, lower-hazard polymer systems for industrial applications such as coatings, adhesives, sealants, composites, construction products, packaging or advanced manufacturing. The final project will be shaped around the candidate's expertise and the company partner's sustainability challenge.

Sustain-FIT supports 36-month applied research fellowships hosted by Irish research organisations, including TUS, with a mandatory 6–12 month secondment in an Irish company.

Postdoctoral candidates do not need to arrive with an industry partner. TUS has existing Irish industry contacts across the coatings, adhesives and polymers sectors who are willing to host strong applicants, and we will match suitable candidates to an appropriate company as part of the application. Additional industry partners are, of course, also welcome to get in touch.

Possible Project Themes

The fellowship can be developed around one or more of the following areas:

- **Bio-based epoxies and thermosets**
- **Bio-based polyurethanes**
- **Bio-based phenolics and high-performance resins**
- **Bio-based alkyds and coating binders**
- **Bio-based adhesives and sealants**

Why Partner with TUS?

TUS has applied expertise in polymer chemistry, coatings, adhesives, formulation development, polymer processing, materials characterisation and industry-facing research. The project can support companies seeking to reduce fossil-derived content, replace substances of concern, improve circularity, lower embodied carbon or develop higher-value sustainable materials.

Who We Are Looking For

Postdoctoral researcher — a researcher with a PhD in polymer chemistry, organic chemistry, materials chemistry, chemical engineering or a related field. Relevant experience may include resin synthesis, thermoset formulation, coatings, adhesives, sealants, polymer characterisation, sustainable materials or industrial formulation science. Applicants must meet the Sustain-FIT mobility rules.

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