

**Design for Manufacture: Clean Room
Moulding & Production**

**Improving the experience
of manufacturing teams**



SMART 
advanced manufacturing

ORGANISATION PROFILE

Irish Manufacturing Research is a non-for-profit RTO that helps Irish manufacturing companies to innovate. IMR has 85 people of which 60 are researchers, working in Data Analytics, IIoT, Energy Efficiency, Co-botics, Circular Economy and Software Engineering.



**IRISH
MANUFACTURING
RESEARCH**

PROPOSAL INTRODUCTION (I)

Vision: Highly experience tooling & injection moulding company with large commercial reach is expanding to develop flexible Clean Room Facilities in its operations to reach new markets with new products. Looking to co-operate in developing '*matched product & production environments*' using design for manufacture principles across multiple applications areas. Open to customizing this vision to sector / product needs.

Motivation: To utilize highly experienced workforce to address challenges for new market opportunities through design, experimentation, prototyping and preparation for volume production in customizable and flexible cleanroom environment.

Content:

- Start with a concept – finish with a product & production environment
- Leverage technical know how to new challenges
- Preparation for volume production

PROPOSAL INTRODUCTION (II)

Expected outcome: an experienced experimental hub where (i) new product opportunities are de-risked, (ii) new technologies and methods are de-mystified, developed and designed, and (iii) commercial viability is examined and scaled.

Impacts:

- Accelerate concept-to-reality innovation of product & process
- Open access to experienced moulding resources for improvement in efficiencies from day one production
- Rapid route to volume manufacturing

Schedule: duration 12 months

PARTNERS

Current Consortium:

- IMR will provide process expertise & facilities

Partner search: Innovators, producers with firm product ideas and needs looking for rapid route to niche or volume markets.



CONTACT INFO

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