

## Freemelt receives an order from Nuclear AMRC

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**Freemelt has received an order from Nuclear AMRC for 3D printed tungsten parts for a research study targeting further development of high-demanding tungsten components for use in Fusion Energy applications.**

The University of Sheffield Nuclear Advanced Manufacturing Research Centre (Nuclear AMRC) is part of the UK's High-value Manufacturing Catapult, which is funding this project. The Nuclear AMRC helps UK companies win work for large-scale, high-precision manufacturing across the nuclear industry.

Global trends show increased government interest in Fusion where the U.S., Japan, Germany, and the UK have announced programs to support the commercialization of Fusion Energy. The prediction is that the first Fusion Energy power plant will deliver electricity to the grid before 2035(1).

Tungsten is a critical material for the Fusion Energy industry due to its unique properties, including high density, strength, and resistance to extreme temperatures and wear. Traditional manufacturing of tungsten components is challenging and costly, especially when aiming for the highest material properties. Additive Manufacturing (AM) offers a promising solution to these challenges. AM enables the production of tungsten components with complex geometries that are difficult or impossible to achieve with traditional methods. Additionally, AM can reduce material waste, shorten production times, and allow for more flexible manufacturing processes.

Freemelt's E-PBF (Electron Beam Powder Bed Fusion) technology is particularly attractive as it enables efficient manufacturing of tungsten parts with less design limitations while achieving the highest material properties. This makes it an ideal choice for producing critical components for the Fusion Energy industry.

Freemelt CEO Daniel Gidlund comments:

"This order from Nuclear AMRC re-emphasizes our unique position and capabilities in printing Tungsten, as Nuclear AMRC is one of the world's leading research institutes in tungsten and Nuclear Energy development. It also strengthens our position and presence within the tungsten and Fusion Energy community in the UK and underscores the critical role that Freemelt's E-PBF technology plays in processing challenging materials like tungsten for Fusion Energy power plants"

Source:

(1) Fusion Industry Association, under [Fusion Industry Investment Passes \\$6bn – Fusion Industry Association](#)

[www.fusionindustryassociation.org](http://www.fusionindustryassociation.org)

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## Contacts

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## About Us

Freemelt is a deep-tech, green-tech company whose groundbreaking solution creates new opportunities for rapid growth in 3D printing, also known as additive manufacturing (AM). AM is a technology under substantial growth, revolutionizing the traditional manufacturing industry by offering a sustainable production process with optimized product design, shorter lead times, minimal material waste, and reduced environmental impact. Freemelt's protected technology enables more cost-effective 3D printing with consistent and high quality. A open-source approach will provide conditions for significant growth and expansion into new manufacturing markets. Freemelt was founded in 2017, is listed on Nasdaq First North Growth Market, headquarters in Mölndal, has a manufacturing unit in Linköping, and sales offices in the Netherlands and the USA. Read more at [www.freemelt.com](http://www.freemelt.com)

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## Attachments

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