

FUSIONMATTERS

CANADA

It has been a busy summer for fusion. The National Ignition Facility (NIF) repeated its milestone experiment in July for a second time, The Fusion Industry Association (FIA) reported that investment in private companies grew for a third year, reaching a total of US\$6 billion., Canada's General Fusion announced new funding to build a new fusion machine in Vancouver, BC.

The FECC will hold its AGM on 2 October 2023 featuring a presentation by Dr. Antoine Cerfon of **Type One Energy**, “**a company mission-driven to provide sustainable, affordable fusion power to the world**”.

CWFEST 2023 – is a virtual workshop scheduled for 24 October 2023. It will feature 12 presenters from top private sector fusion energy companies with plenty of career opportunities.

Fusion in the News

Fusion ignition of a landmark experiment repeated: In an experiment conducted on 30 July 2023 the National Ignition Facility (NIF) at Lawrence Livermore Laboratory repeated ignition after their milestone burn on 5 December 2022. <https://www.llnl.gov/article/50011/60-minutes-snl-fusion-ignition-news-thrusts-llnl-zeitgeist>

FIA 2023 Industry Report: according to the Fusion Industry Association (FIA) 2023 Global Fusion Energy Report <https://www.fusionindustryassociation.org/fusion-industry-reports/> :

- 43 private fusion companies were surveyed that, attracted US\$6.21 billion from 27 investors and funders (up from \$4.1 billion in 2022),
- 12 countries are active in fusion energy development, creating 975 direct jobs and 3000 jobs in the supply chain,
- 4 companies predict they will deliver power to the grid by 2030 and 19 companies predicted by 2035.

General Fusion announces funding to build new fusion machine targeting scientific breakeven by 2026 <https://generalfusion.com/post/general-fusion-announces-funding-to-build-new-fusion-machine-targeting-scientific-breakeven-by-2026/>

Calendar (add links to all events?)

16-21 Oct 2023: IAEA (International Atomic Energy Association) 29th IAEA Fusion Energy Conference (FEC 2023), London, England <https://www.iaea.org/events/fec2023>

23-25 Oct 2023: IAEA Technical Meeting on Fusion Design Safety and Regulation [Virtual]

7-10 Nov 2023: IAEA Third Research Coordination Meeting on Pathways to Energy from Inertial Fusion: Materials Research and Technology Development [Virtual]

2 October 2023, 3:00 pm MDT: FECC AGM The Fusion Energy Council of Canada will hold its 2023 Annual General Meeting (in virtual form) on Monday 2 October 2023 at 3:00 pm Mountain time. The AGM is followed (at approximately 3:45 pm Mountain time) by a presentation on “Type One Energy's high-field stellarator path to fusion energy”. The featured Speaker is Dr. Antoine Cerfon, Senior Research Scientist at Type One Energy.

24 October 2023: CWFEST 2023 FECC and CNS-FEASTD are hosting the next Canadian Workshop on Fusion Energy Science and Technology (CWFEST-2023) on Tuesday 24 October

2023. This will be a full day virtual workshop given by 12 eminent speakers. These speakers will present on the second successful fusion reaction in July 2023, the rapid growth of private sector investments globally, and various approaches to commercializing fusion energy. Eight companies, including Canada's General Fusion, will be highlighted.

For more information and registration visit the CWFEST website

<https://www.xcdsystem.com/cns/program/iP2V2Rk/index.cfm?pgid=1520>

28 Nov-1 Dec 2023: IAEA Workshop on Artificial Intelligence for Accelerating Fusion and Plasma Science, Vienna, Austria

CANtrit 2025 Canada has been chosen to host the International Tritium conference in Ottawa in 2025. Watch this space for more information as it becomes available.

Career Opportunities

According to the FIA last year, the fusion industry created 975 direct jobs and 3000 jobs in the supply chain. Below are just a few opportunities offered by the companies speaking at CWFEST 2023

- **General Fusion** – <https://generalfusion.com/careers/>
- **Lawrence Livermore National Laboratory** – <https://lasers.llnl.gov/about/careers>
- **First Light Fusion** – <https://firstlightfusion.com/careers>
- **Marvel Fusion** – <https://marvelfusion.pinpointhq.com/#js-careers-jobs-block>
- **Thea Energy** – <https://thea.energy/careers/>
- **Commonwealth Fusion Systems** – <https://cfs.energy/careers>
- **Helion Fusion** – <https://www.helionenergy.com/careers/>
- **TAE Fusion** – <https://tae.com/careers/>
- **Avalanche Energy** – <https://www.avalanche.energy/careers.html>

Bookmarks

The Star Builders: Nuclear Fusion and the Race to Power the Planet by Arthur Turrell

The Star Builders looks at new research, and new interest in a power source that could be revolutionary.

<https://www.cbc.ca/radio/quirks/july-30-best-of-quirks-quarks-holiday-book-show-1.6288812/are-we-getting-closer-to-practical-fusion-power-a-new-book-says-maybe-1.6288827>

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