# Access and Pricing Policy

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# Access and Pricing Policy

## Introduction

Heavy Ion Accelerators (HIA) is a network of particle accelerators funded by the National Collaborative Research Infrastructure Strategy (NCRIS). We provide accelerated ion beams for a wide variety of research and industry applications, in support of Australia's National Science and Research Priorities.

Our $150M facilities for high-energy ion beam research represent decades of strategic investment in the national interest by the Australian National University, the University of Melbourne, state and territory governments, the Commonwealth Government and our industry partners. The three nodes comprising HIA are as follows:

- The Heavy Ion Accelerator Facility (HIAF), hosted by The Australian National University (ANU)

- The Ion Implantation Laboratory (iiLab), also hosted by ANU

- The Experimental Condensed Matter Laboratory (ECMP), hosted by The University of Melbourne (UoM).

Consistent with the funding principles of NCRIS, HIA makes these facilities available to both domestic and international research and industry users, on the basis of merit and feasibility.

## Definitions

1. **User:** an individual or group seeking accelerated ion beams for research or industrial purposes.

2. **Node:** one of the three facilities that comprise HIA, namely HIAF, iiLab or ECMP.

3. **Host Institution:** either The Australian National University (for HIAF and iiLab), or The University of Melbourne (for ECMP).

4. **Node Director:** the individual responsible for operational decision making and the administration of NCRIS resources for a particular node.

5. **Beam time:** total time over which accelerated ion beams are sought, or provided for, a particular user.

6. **External users**: users external to the institution hosting a particular node.

7. **Internal users**: users from within the host institution.

8. **Supported access**: Node staff members operate one or more of the following on behalf of the user:

    a. the accelerator facilities to ensure accelerated beam is delivered to the correct end station with the desired parameters (e.g. beam species, energy, current, fluence),

    b. assist with set up and/or monitoring of the measurement configuration and beamline instrumentation at the end station,

      c.   data acquisition systems.

9. ***Unsupported access:*** a user operates the accelerator facilities listed above without the assistance of Node staff members. Unsupported users must be preauthorised by the relevant Node Director.

10. ***Small or medium enterprise*** (SME): a business or entity employing less than 200 people (as defined by the Australian Bureau of Statistics)

11. ***Large business***: a business or entity employing 200 or more people (as defined by the Australian Bureau of Statistics): includes state/territory and Commonwealth Government users.

12. ***Publicly funded research:*** research funded by a funding source such as NHMRC Project Grants, ARC Discovery Grants or State Grants, including those with an industry contribution, such as NHMRC Development Grants or ARC Linkage Grants, or funded by a Commonwealth entity, such as CSIRO or a Commonwealth Department.

13. ***Industry funded research:*** research conducted under a private sector-funded contract with one of the Host Institutions.

## Open access policy

1. ***Access is merit based:*** HIA provides access to its facilities based on a combination of scientific merit and feasibility, as assessed at the relevant Nodes. Assessment of merit will be made with reference to the following guidelines:
    a. Australia's National Science and Research Priorities, which can be found at [https://www.industry.gov.au/publications/national-science-and-research-priorities-2024.](https://www.industry.gov.au/publications/national-science-and-research-priorities-2024.)
    b. the NCRIS Roadmap, which can be found at [https://www.education.gov.au/national-research-infrastructure/2021-national-research-infrastructure-roadmap](https://www.education.gov.au/national-research-infrastructure/2021-national-research-infrastructure-roadmap).
    c. the HIA Business Strategy, which can be found at [https://accelerators.org.au/wp-content/uploads/2024/07/HIA-Strategy-for-website.pdf.](https://accelerators.org.au/wp-content/uploads/2024/07/HIA-Strategy-for-website.pdf.)

2. ***Access from external users, including industry, is actively encouraged:*** At least 30% of beam time at each node is available for external users, either domestic or international, publicly funded or commercial in nature.

3. ***Fees are locally determined:*** Fees for use of the facilities at each node are set by the respective Node Director, consistent with the user definitions outlined in this document.

4. ***Intellectual Property and research data***: IP and research data created in the course of the provision of beam time adheres to the policies of the host institution of the relevant facility.

    a. The ANU IP policy can be found at [ANU Policy Library - Policy - Intellectual property.](ANU Policy Library - Policy - Intellectual property.)

    b. The UoM IP policy can be found at [Intellectual Property Policy (unimelb.edu.au).](Intellectual Property Policy (unimelb.edu.au).)

5. ***Attribution is essential for measuring HIA's research impact:*** access to HIA facilities is provided on the basis that users will provide attribution to HIA using the statements provided in this document.

## How to apply for access

Please contact the relevant Node Director, as follows:

- **For HIAF:** contact the Scientific Director, Professor Mahananda Dasgupta

  Email address: admin.hiaf@anu.edu.au

  Phone: (02) 6125 5111

  Website: https://hiaf.anu.edu.au

  - **For the HIAF Space Irradiation Beamline (HIAF-SIBL)**

    *Please note that a standard contract agreement is required for use of HIAF-SIBL\**
    Website (including Expression of Interest Form):
    https://accelerators.org.au/capabilities/space-irradiation-beamline-testing-components-for-space

- **For iiLab**: contact the iiLab Manager, Dr Tom Ratcliff, or iiLab Director, Professor Rob Elliman

  Email address: iilab@anu.edu.au

  Phone: (02) 6125 0362 or (02) 6125 0521

  Website: https://iilab.edu.au

- **For ECMP**: contact the ECMP Director, Professor Jeff McCallum

  Email address: jeffreym@unimelb.edu.au

  Phone: (02) 6125 0362 or (02) 6125 0521

  Website: https://physics.unimelb.edu.au/research/research-areas/condensed-matter-physics

- **For the HIA CEO**, Dr Tom McGoram

  Email address: hia.admin@anu.edu.au

  Phone: (02) 6125 7358

  Website: https://accelerators.org.au

## How projects are assessed

Access is based on a combination of scientific merit and feasibility of the program of work. Proposals are assessed at the relevant node based on the quality/feasibility of the project, and the availability of beam time and support personnel.

## Lead time

Lead times required for acceptance of proposals vary at each node, but as a guide it is recommended potential users allow at least three months from initial enquiry until beam delivery, provided the user proposal is accepted. Interested users should contact the relevant node Director for further details.

## Access by industry

HIA strongly encourages industry use of its facilities. We work close with the Australian space industry to provide radiation testing of materials and electronic components at HIAF-SIBL, and with micro-electronics and quantum industries using ion implantation capabilities. We welcome enquiries from industry. Please contact the CEO for further information at hia.admin@anu.edu.au.

## Attribution requirement and statement

Please use the following statement for all publications, conference presentations or posters which describe research conducted at HIA facilities (excluding HIAF-SIBL):

> *"The author(s) acknowledge the facilities, and the scientific and technical assistance provided by Heavy Ion Accelerators (HIA). HIA is supported by the Australian Government through the National Collaborative Research Infrastructure Strategy (NCRIS) program."*

For all publications, conference presentations or posters which describe research conducted at HIAF-SIBL:

> *"The author/s acknowledge the facilities, and the scientific and technical assistance provided by Heavy Ion Accelerators (HIA). HIA is supported by the Australian Government through the National Collaborative Research Infrastructure Strategy (NCRIS) program and the HIAF space irradiation facility was developed with the support of a grant from the Australian Space Agency."*

## Pricing

To maximise access to a broad range of users, all pricing represents a significant discount from actual operating costs. All prices in this document are in Australian dollars, are exclusive of GST and are correct at time of publication.

*Note: 'POA' indicates Price On Application: please discuss with the relevant Node contact officer*

| Node | Category | Type of access | Rate* | AUD |
|------|----------|----------------|-------|-----|
| HIAF | Publicly funded research | Unassisted | daily | $3,000 |
| | | Assisted | daily | $4,000 |
| | Industry funded research *(small-medium enterprises)* | Assisted | daily | $6,000 Plus, one-off $2500 setup and consultation fee |
| | Industry funded research *(large enterprises)* | Assisted | daily | $12,000 Plus, one-off $2500 setup and consultation fee |
| iiLab | Publicly funded research | Unassisted | daily | $500 |
| | | Assisted | daily | $750 |
| | Industry funded research *(small-medium enterprises)* | Assisted | daily | POA |
| | Industry-funded research *(large enterprises)* | Assisted | daily | POA |

| Node | Category | Type of access | Rate* | AUD |
|------|----------|----------------|-------|-----|
| ECMP | Publicly funded research | Unassisted | daily | $1200 |
| | | Assisted | daily | $2400 |
| | Industry funded research *(small-medium enterprises)* | Assisted | daily | POA |
| | Industry funded research *(large enterprises)* | Assisted | daily | POA |

*****'daily' means up to 16 hours per day, depending on node**

## Grievances

Grievances will be handled in line with host institution policy. In the first instance, please contact the HIA CEO, Dr Tom McGoram:

Email address: hia.admin@anu.edu.au

Phone: (02) 6125 7358

Website: https://accelerators.org.au