

D-PACE · NIBS'26 KEY SPONSOR · SEPTEMBER 2026



Fueling the Future with Ion Source Innovation

Ion source and related solutions for
research, medicine, industry and energy in
the accelerator industry.

Richard McElroy, CEO
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Three Decades. One Key Focus.

1995

FOUNDED

- Decades of focused ion source and accelerator experience

25+

SPECIALISTS

- Physicists, engineers, technicians and business leaders

30+

PRODUCTS

- Sources, diagnostics, magnets and beamline solutions

DISC

TEST FACILITY

- In-house integration, beam testing and validation

PHYSICS, ENGINEERING, INTEGRATION, MANUFACTURING AND TESTING BROUGHT TOGETHER IN NELSON, BC, CANADA.

Field Proven Across Critical Sectors



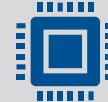
MEDICAL

- Isotope production
- Diagnostic imaging
- Particle therapy & BNCT



ENERGY

- Fusion platforms
- Fission systems
- Lab to deployment



INDUSTRIAL/OEM

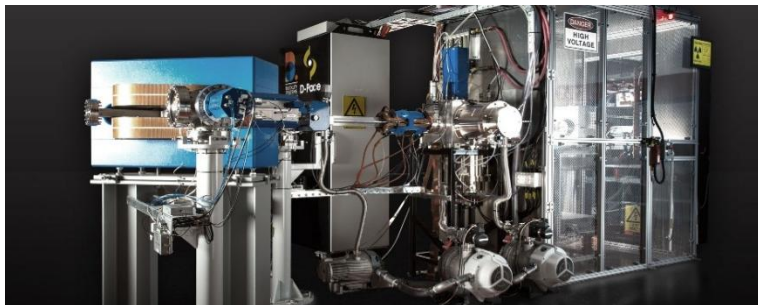
- Ion implantation
- Surface modification
- Materials analysis & NDT



RESEARCH

- Particle & nuclear physics
- Materials science
- Accelerator facilities

STABLE, HIGH-PERFORMANCE ION BEAMS AND SUPPORTING TECHNOLOGY
ACROSS EVERY SECTOR



ION SOURCES

(Turnkey System or Source Only)

ECR 2.45 GHz

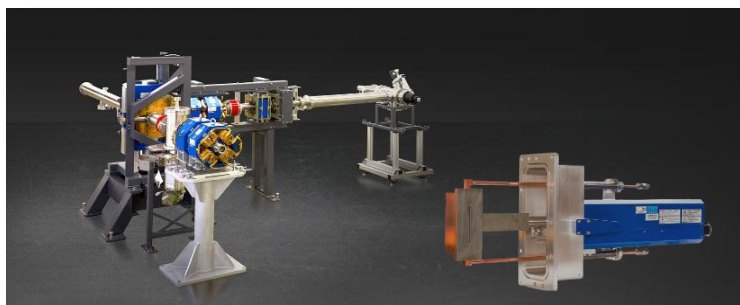
- Particles: H^+ , H^{2+} , D^+ , He^+ (>30mA)

Filament-powered Multicusp

- Config 1: Negative: H^- / D^-
- Config 2: Positive: H^+ , H^{2+} , H^{3+}
- Config 3: Dual: H^- D^- , H^+ , D^+ , He^+

In Development

- Compact 14.5 GHz ECR Alpha Source
- Multicusp RF Source (H^- , D^- , C_2^- , C_2H^- , $C_2H_2^-$, O^- , O_2^-)



RELATED TECHNOLOGIES

Diagnostics

- Emittance Scanners, Beam Profilers, Faraday Cups, Mass Spectrometers

Magnets

- Dipoles, Solenoids, Quadropoles
- Steering, Mass-Separating, Focussing

Custom Beamlines

- Low energy beamlines for ion sources
- Application specific beamlines (BNCT, PET)



SERVICES

Ion Source Test Facility

- Test Stand 1: 2.54GHz and 14GHz ECR
- Test Stand 2: 10kW Filament Multicusp

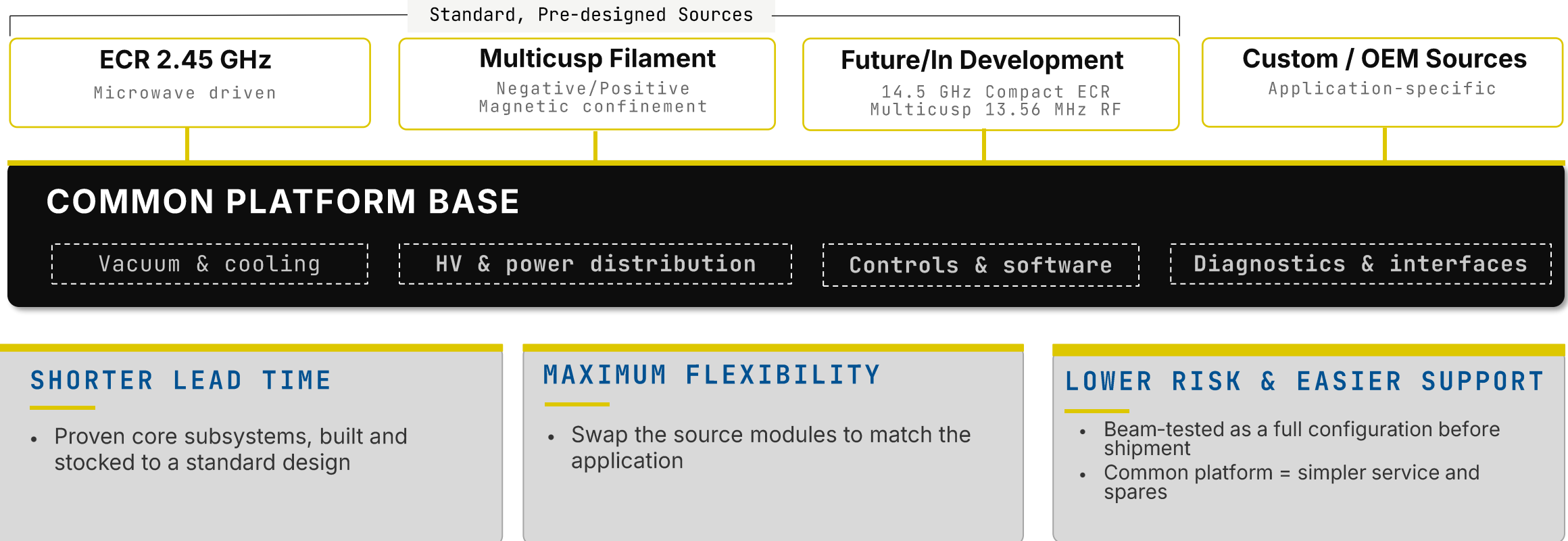
Modelling & Simulation

- Ion source and beamline simulation
- Thermal analysis
- Simulation Software

Engineering & System Integration

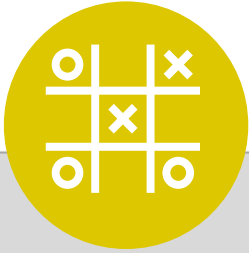
One Platform. Every Source.

Standardized core, modular by design



ONE BASE PLATFORM • MANY BEAMS • FASTER TIME TO VALUE

Fueling enhanced customer experience and growth



5-year Strategic Plan

- Deliver more value to customers
- Drive focused growth

[COMPLETE]



Interactive Website

- Elevate customer engagement
- Showcase product value
- Maximize brand awareness

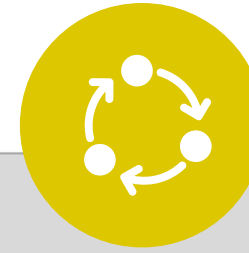
[PHASE 1 COMPLETE]



Global Advisory Network

- World-class advisors to help guide strategy, market expansion, technology.

[ON-GOING]



Digital Operations Platform

- ERP/CRM to streamline workflows and enhance customer experience.

[TARGET: Q2/FY27]



Quality Management System (QMS)

- An ISO 9001-aligned QMS to strengthen consistency and operational excellence.

[TARGET : Q2/FY27]



CLOSING

Thank you. Enjoy NIBS'26 and your time in Nelson!

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VISIT US • EXHIBIT HALL

Be sure to visit the D-Pace booth
to meet the team and learn about
us!