- **Job Title:** Magnet Engineer – China Operations

Why Mevion Medical Systems:

For over 20 years, Mevion has been a leader in proton therapy, providing precise, innovative cancer treatments with the MEVION S250 series. Our cutting-edge systems offer the smallest footprint and most affordable integrated solutions, making world-class cancer care accessible globally. Trusted by National Cancer Institute-designated centers, we provide exceptional support to ensure the success of our partners.

At Mevion, our mission is to provide superior proton therapy to as many cancer patients as possible. Over the past two decades, we have consistently set the standard in the industry with innovative solutions that shape the present and future of cancer treatment. Our dedicated team of experts is committed to advancing the science of proton therapy and improving patient outcomes. Guided by visionary leadership, we are advancing the science of proton therapy to improve patient outcomes worldwide.

Job Overview:

Mevion is seeking high-potential, bilingual engineers to join our China Operations team to support our **high-field superconducting cyclotron magnet**. The role begins with structured training in the United States before transitioning to support Mevion's advanced proton therapy systems in China. This position supports the full product lifecycle, including factory operations, installation, service, and future development. Ideal candidates are fluent in English and Chinese, have a **background in applied superconductivity, cryogenics, or high-field magnets**, and are motivated to grow with a leading high-tech company in China's healthcare sector.

Contact Person @ASC 2026:

- Nathaniel Allen (nathaniel.allen@mevion.com)

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Development Path:

- Initial structured **training program in the United States** (min of 6 months).
- Technical curriculums, hands-on training and operator certifications.
- Opportunities for accelerated career development.
- Long-term relocation to support China operations is **required.**

Work Conditions:

- Willingness to travel domestically and internationally.
- Occasional travel to vendor or customer sites, as needed.
- Able to work safely in laboratory and factory environments.
- Able to work in high magnetic field environments.

Key Responsibilities:

- Build subject-matter expertise in Mevion's superconducting magnet and related electrical, mechanical, and cryogenic subsystems.
- Support assembly, integration, and testing of the superconducting magnet within Mevion's proton accelerator module.
- Collaborate with installation, and service teams to improve magnet-system reliability, serviceability, and lifecycle performance.
- Support system installation and commissioning at clinical sites.
- Collect and analyze data during magnet ramping and acceptance testing.
- Troubleshoot complex magnet and system-level technical issues using structured root-cause analysis.
- Perform structural, thermal, and electromagnetic analyses to assess magnet performance and confirm design requirements.
- Develop and maintain superconducting magnet technical requirements and specifications, including cryogenic and protection systems.
- Create and maintain engineering documentation, including specifications, drawings, work instructions, and verification and validation protocols.
- Initiate and implement Engineering Change Orders (ECOs) and support design verification and process qualification activities.
- Coordinate technical alignment and knowledge transfer between U.S. and China engineering and operations teams.
- Drive continuous improvement across manufacturing, testing, installation and service departments.

Candidate Profile:

- **Education:** Bachelor's degree in Electrical, Mechanical, Nuclear, Aerospace Engineering, or a related field; Master's degree preferred.
- **Experience:** 0–5 years of relevant engineering experience, including internships, cooperative education, research, or equivalent experience.
- **Language:** Bilingual proficiency in Mandarin Chinese and English required.
- **Background:** Strong understanding of both U.S. and Chinese cultures preferred; education or experience in both regions is a plus.
- **Skills:** Experience with superconductivity, high-vacuum systems, and cryogenics strongly preferred. Proficiency with SolidWorks or similar 3D CAD software desired, along with experience in mechanical, thermal, or electromagnetic finite element analysis. Ability to contribute across multiple technical areas.
- **Soft Skills:** Strong ownership, accountability, and execution skills. Excellent written and verbal communication. Self-motivated, proactive, and able to learn quickly, work independently, and collaborate effectively in a global organization.