iRP TECHNOLOGY InfraRed Power

CEO Opportunity

Lead the Revolution in Compact High-Power Laser Technology

Pioneering the Future: Compact & Turnkey High-Power Lasers

The Unique Opportunity

We are on the hunt for a battle-tested CEO to steer a hard tech startup that's on the cusp of commercializing a paradigm-shifting, cross-cutting high-power laser technology. This isn't just another photonics play; it's the only known laser solution that can miniaturize the colossal capabilities of mile-scale particle accelerators like those at SLAC National Accelerator Laboratory and CERN into a turnkey, deployable, compact, and most importantly, commercially viable package.

Backed by $4.5 million in government funding, our pre-revenue company has achieved proof-of-principle with multiple patents secured. Our breakthrough high-power laser unlocks over 40 transformative applications across 13 high-growth industries, among these being healthcare diagnostics and therapeutics, advanced energy, semiconductor manufacturing, and space. With multi-billion-dollar revenue potential, this technology promises to liberalize extreme energy densities — enabling everything from local *non-nuclear* generation of medical radioisotopes for therapy and PET, to laser driven acceleration for various medical applications, to fusion-based energy production methods — without the prohibitive costs, size, and complexity of traditional systems.

The Mission: From Prototype to Market Dominance

We're at a pivotal inflection point: raising a seed round to fund a prototype build, paving the way for customer acquisition and scaling to manufacturing. As CEO, you'll be the architect of this ascent. Your primary mandate? Leverage your successful record in fundraising — especially for hard/deep-tech startups — to secure seed capital for the prototype build from your extensive network of VCs, Angels, strategic investors, and industry partners. Secondarily, you'll drive early customer engagements, build strategic alliances, and position the company either for a Series A to fuel the production ramp-up, or, considering the broad application space, an acquisition by a large laser company.

This is a "done-it-all-before", fulltime role for a serial entrepreneur or executive who's navigated the trenches of early-stage tech: from bootstrapping hardware innovations to closing multimillion-dollar rounds in capital-intensive fields like optics, lasers, or advanced manufacturing. If you've scaled companies in photonics (and are eager to disrupt markets dominated by legacy players like Coherent, Thales, TRUMPF and Amplitude), or adjacent deep-tech spaces, and thrive in high-stakes, resource-lean environments, this is your arena.

What You Bring to the Table

Fundraising Mastery: Demonstrated success raising multi-million-dollar seed/Series A rounds for pre- or early revenue hard-tech startups, with a Rolodex spanning investors, government Agencies (e.g., NASA, DARPA, DOE, NIH), and strategic partners and corporate venture arms.

Industry Acumen: Ideally an understanding of high-power laser dynamics — pulsed and CW, beam quality metrics, thermal management — and particle acceleration, and scaling from lab to fab. Experience with regulatory hurdles in ITAR/EAR/BIS/medical and/or energy sectors a plus.

Leadership Grit: History of assembling cross-functional teams in photonics or hardware, turning prototypes into revenue-generating products, i.e., a strong track record of resilience and adaptability in moving early-stage hardware concepts to prototype and customer pilots and first contracts, and pivoting through technical and market challenges. This reinforced by financial acumen and digital literacy.

Visionary Drive: Passion for disruptive tech that bridges fundamental science (e.g., synchrotron radiation principles and plasma physics) with commercial viability, coupled with the resilience to lead without immediate financial safety nets.

Compensation: Equity-Focused for High-Impact Performers

In true startup fashion, pre-seed compensation is equity-centric — no salary or benefits until the first funding round closes. Your options package will be generous, calibrated to your contributions in fundraising success, milestone achievements, and overall performance. This structure rewards those who've built empires from the ground up and are motivated by outsized upside in a multi-billion-dollar market.

If you're the CEO who's orchestrated similar triumphs — turning high-tech innovations into industry standards — and are ready to scale down the bulk of power and capability giants like SLAC and CERN into the size of a 1-car garage and to distribute it into the hands of the world, let's connect. Confidential inquiries to Jack Lovell at jackL@IRPtechnology.com (or call first). Include your fundraising highlights and why this laser leap excites you. Lack of photonics immersion is not a disqualifier, but lack of hard-tech leadership weighs heavily towards that. Principals only.

A multi-step advance in laser efficiency, coupled with proven plasma particle accelerator technology, opens the door to a practically and commercially viable laser driven particle accelerator that will prove to be the leading competitive replacement for current synchrotrons, cyclotrons and linacs!

CONTACT

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