

Diamond Research and Development Principal Investigator

Advanced Diamond Technologies, Inc. (ADT), the world leader in the development and commercialization of thin film diamond-enabled products, is seeking highly-motivated individuals to join the team as the company's commercial product sales begin to ramp up. ADT is a young, fast growing, award-winning high-tech company based in Romeoville, IL. ADT is currently developing products enabled by diamond for use in the nanomanufacturing, telecommunications, biomedical, and industrial sectors. We currently have an opening for a *Diamond R&D Principal Investigator*.

Position location: Romeoville, IL.

Position Purpose:

The Diamond R&D Principal Investigator (PI) is a key member of the Research & Development team and is responsible for advancing ADT's proprietary form of synthetic diamond (ultrananocrystalline diamond or UNCD) as well as integrating UNCD into products. The primary job responsibility is to identify potential new applications of UNCD and to perform work to develop and evaluate UNCD for these applications, generating results, expertise, and other collateral suitable for transferring new products into production. Secondary duties include securing resources needed to support early stage development work by identifying new sources of government funding (e.g. SBIR, contract research, etc.) as well as the generation and submission of proposals, and project management.

A PI is self-motivated and capable of carrying out independent work. A high degree of innovative input is expected, and he/she contributes to the total ongoing R&D effort across multiple projects and application spaces. The individual should embrace taking on high-risk projects, supervising other staff, and being involved in the selection of support staff. The PI takes the lead in the construction and submission of grant proposals as well as assuming the primary responsibility to direct and manage projects that are selected for funding. The PI should have in-depth experience working in an industrial R&D setting and knowledge of a wide range of technical subjects from materials science to biology. Experience in interviewing/hiring and training personnel to perform tasks related to the execution of contract research is a must, as is direct experience in advancing a concept from early stage prototypes to production ready. Superior project/time management skills are a must.

Responsibilities include:

- Lead multiple projects supported by contract research and internal funding.
- Identify new potential product opportunities and conduct early-stage analysis of their value proposition.

- Identify funding sources to support early-stage technical development aligned with long-term project goals of the company.
- Lead the process to construct and submission grant proposals to government institutions such as NSF, DARPA, DTRA, DOD, etc...
- Direct teams of scientists and research technicians to execute tasks and deliver products to engineering for production.
- Resolve technical problems related to the integration of diamond thin films with other materials and/or chemical/biochemical modification of diamond surfaces.
- Provide technical input as needed in marketing, sales, and business development activities related to new products.
- Assume a leadership role in the company.

Qualifications include:

- A Ph.D. in Physics, Chemistry, Materials Science, Biology, Engineering, or related field.
- 5+ years hands-on industrial experience.
- Expert in the science and development of Chemical Vapor Deposition (CVD) diamond thin films for applications – *or*- significant experience with a number of technologies/materials spanning the basic-applied-commercial continuum.
- Extensive experience with the identification of government funding sources and opportunities, as well as managing relationships with program managers at these agencies.
- Extensive experience with the submission of proposals to government agencies.
- Experience with wafer-scale microfabrication processes.
- Experience with common analytical techniques used for characterization of advanced materials.
- Experience with nanomaterials and structure/properties relationship in these systems.
- Knowledge regarding product development and the integration of market intelligence into early-stage R&D activities.
- Knowledge regarding effective time management skills and the ability to multi-task on diverse topics and get things done (GTD).
- Demonstrated project management experience.
- Skilled in data interpretation and report writing.
- Demonstrated leadership skills and the management of teams working to solve problem under pressure.
- 24/7 approach to meeting milestones, handling crises, and getting products to market.
- Excellent interpersonal skills, positive attitude and enthusiasm.
- Team/staff management experience preferred.

ADT offers a competitive compensation package including salary, bonus potential, health care benefits, paid vacation and stock options.

How to apply: For consideration please email your resume or CV to jobs@thindiamond.com Please include your last name and the position title in the email subject line. No third parties or phone calls.

For more company information please see: <http://www.thindiamond.com>

ADT is an equal opportunity employer