



Job Title: Research Associate I in Applied Biology

Location: Boulder CO

Reports To: Scientist in Applied Biology

About Alta

Alta Resource Technologies (Alta) is a next generation mining company that uses synthetic biology to separate critical minerals from conventional and unconventional resources, including e-waste. Founded in 2023, the company is expanding its team in Boulder, CO.

The exponential growth of new tech industries, as well as the information technology sector, are driving historic growth in mineral demand and stressing existing supply streams. Meeting new demand, diversifying the supply chain, and producing minerals in a more sustainable manner requires the rapid development, deployment and scaling of new technologies. This mineral challenge represents a historic opportunity for technology development and value creation. Alta is proud to be at the vanguard of this mega trend.

About the Role

We are seeking a highly motivated Research Associate in the Applied Biology group who will execute on DNA cloning, protein expression and purification, and protein chemistries. The qualified candidate should have experience in molecular cloning and protein production and purification with demonstrated focus and organization. The candidate will work within a multidisciplinary and dynamic team to aid in development of robust protocols for transfer within internal and external groups. The individual must have strong communication and critical thinking skills with a rigorous approach to science.

Key Responsibilities

- Conducts laboratory experiments to support workflows that include DNA cloning, microbial transformations, agar plating, protein expression and purification, and protein assessments.
- Independently follows provided protocols for molecular biology and protein production and purification.
- Collaborates with scientists for developing and testing new laboratory protocols.
- Assists scientists in engineering proteins for metal binding by implementing molecular biology workflows.

- Accurately prepares media, buffers, and plates according to provided SOPs and documents all processes.
- Makes detailed observations and carries out elementary data analysis, visualization, and interpretation of findings.
- Communicates results to stakeholders, supporting multiple projects in parallel.

Required Qualifications

- BS/MS in biochemistry, molecular biology, chemical and biological engineering, or related field with 0-2 years of industry experience.
- Experience working with microbes including either *Escherichia coli* and *Bacillus subtilis*.
- Demonstrated excellence in laboratory technique: operating a safe and clean environment with carefully documented experiments.
- Experience in DNA primer design, PCR, plasmid cloning, and microbial molecular biology techniques.
- Experience in microbial protein expression and safe laboratory practices.
- Knowledge of experimental design and statistical analysis.
- Strong written and verbal communication skills and ability to work within cross-functional teams.
- Excellent organizational and documentation skills with an eye for detail.

Preferred, But Not Required

- Experience in high-throughput molecular biology approaches, laboratory automation, and/or library-scale workflows.
- Experience with column chromatography.

What We Offer

- The opportunity to join a breakthrough program redefining U.S. supply chain resilience in critical materials.
- A mission-driven, high-trust team operating at the intersection of innovation, national security, and sustainability.
- High Impact & Visibility: direct interaction and reporting to executive leadership.
- Competitive compensation and benefits package:
 - The starting salary range for this position is \$65,000 to \$78,000 annually, commensurate with educational background and work experience.

- Benefits including, 401(K) medical, dental, and vision plans, or equivalent, will be provided.

Interested? Apply now! We look forward to hearing from you!

How to Apply

- To apply, please email your resume and a cover letter to talent@altatech.io.
- Include your name and the job title in the subject line (i.e., [Your Name] – [Job Title]).
- All applications must include a one-page cover letter. The cover letter must clearly state your interest in the position and our company, outline 2–3 specific skills or accomplishments relevant to the role, and demonstrate how your experience aligns with our mission and technology platform. We expect concrete examples that illustrate measurable impact and collaborative problem-solving in technology development.
- Applications submitted without a cover letter will not be considered.
- Alta participates in e-Verify for all positions.

EOE

At Alta, we are committed to diversity and inclusion. As an equal opportunity employer, all qualified candidates will be considered for employment without regard to race, color, creed, religion, age, sex or gender (including pregnancy, childbirth, lactation and related medical conditions), gender identity or gender expression, sexual orientation, marital status, national origin, ancestry, citizenship status, military service or veteran status, physical or mental disability, or any other legally protected characteristic. Alta participates in e-Verify for all positions.

If you have a disability or special need that requires accommodation at any point in the hiring process, please let your recruiter know.