

AltMat:

AltMat is an alternative materials manufacturing company. We convert agriculture waste into materials for industries like textiles and papers. Textile applications holds a major chunk of our operation.

Textile is omnipresent. From the shirts you button, socks you pull to carpets you walk on and pillows you sleep on, everything is textile. Like how Oil and gas, one of the largest polluters has 'alternative' fuel like electric cars, solar as a solution, textile, another massive polluter needs 'alternative' materials. And we make that. We convert agriculture waste into alternative textile fibres having better ecological footprint and performance characteristics than cotton and crude based textiles. While doing so, we also solve the problem of agriculture waste and build a potential for farmers to get additional income.

AltMat is one of the youngest companies to be a part of Fashion for Good supported by partners like Adidas, C&A, Chanel, Bestseller, Kering, PVH Corp., Stella McCartney, Welspun etc. Our founder is the youngest to receive Women Transforming India felicitated by Vice President of the nation on behalf of Niti Ayaog and United Nations. We have been appreciated and present on stages like United Nations Climate Summit stopover, TechStars, Atal Innovation Medal, TedX, Rajeev Circle Fellowship etc.

About the Project:

These fibers have applications in other materials like making sustainable alternatives to Styrofoam, Synthetic non-woven, Leather, Plastic composites. Researchers with a background in material science would be working to make prototypes, portfolios and processes for 1. Packaging Materials 2. Plant based Leather 3. Replacements of plastic composites for applications like clothing hanger, buttons etc. A same researcher would NOT be compulsorily responsible for all the stated applications. He or she would also be responsible for testing the assigned application's materials properties and mapping the final applications.

AltMat would provide with details of specifications for these materials. On remarkable execution, company would be open for hiring the candidate.

Duration: 4 to 6 months

No. of Interns/ Researchers: 2 to 4

Process: Share resume with a statement of purpose explaining your eligibility and interests in the project at admin@altmat.in. Selected Candidates would be called for a short interview. Qualifications and skills are mentioned below:

Qualifications:

1. Final year Bachelors, Masters or PhD candidate in the field of Materials Science with a focus on composites.
2. Scientific understanding of making materials, prototypes and testing for properties would be of importance.
3. He or she should be aware of basic processes, materials and apparatus needed for making the application listed in the project description.
4. Understanding of polymers would be appreciated. We aren't looking for making polymers but the understanding would be a good add on.
5. Understanding of reinforced composites would be valued.
6. A student with a thesis project in any of the fields on composites, vegan leather, packaging materials, plastic alternatives etc. would be preferred. However, it is not compulsory.

Other Skills:

1. Enthusiasm for prototyping and willingness to do number of iterations for discovering possibilities.
2. Sense of responsibility to handle confidential information.
3. Passionate about making materials that are good for environment while being viable.
4. Agile enough to reach out to right people, ask questions, learn and apply as and when needed.
5. Ability to explain complex scientific information in simple layman language.
6. Skill to write scientific papers or a white paper would be appreciated.
7. Preparedness to accept volatilities and excitements associated with start-ups.
8. Ability to conduct effective secondary and primary research.