GENOMIC SCIENTIST

- Leading Australian Cereal Breeder
- Vibrant working environment with a strong team culture
- Opportunity to make a difference
- Location Perth Western Australia

For more information Contact:

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ABOUT US

InterGrain Pty Ltd is a world class plant breeding company currently experiencing significant growth. Our mission is to support the competitive advantage and sustainability of the Australian agriculture sector by delivering market leading wheat, barley & oat varieties.

InterGrain has a strong commitment to supporting technology innovation and global plant breeding research. Demonstrated most recently through our development of the Infinium™ Wheat Barley 40K BeadChip in collaboration with Agriculture Victoria and offered globally by Illumina. The Infinium™ 40K chip combines world-first dual hybridization technology with highly accurate near-genome level imputation capability to delivery a SNP chip unlike any other on the market.

We are currently seeking a Genomic Scientist to lead InterGrain through our next technology transformation in advancing genomic breeding. This is an exciting role for an innovative and highly motivated person with an interest in delivering impact to global research with direct application in the Australian grains industry.

THE ROLE

Genomic Scientist- Applied Breeding

Aligned with InterGrain's plant breeding and selection product development pipelines, you will have the opportunity to:

- Engage with dedicated teams of multi-species plant breeders and plant breeding programs with several product development targets.
- Engage with a collaborative research partnership that is currently optimising the suitability and flexibility of our genomic platform, prediction models and application. As part of this partnership, you will lead and advance the integration of full genomic breeding into our company.
- Migrate and manage large datasets into our company, lead development of a genomic/phenotypic data processing pipeline and implementation of front-end applications that accelerate and increase the efficiency of crop breeding program decision making processes.
- Genetically characterise breeding populations and engage with breeders on optimising strategic introgression, training populations and breeding pipelines.

INTERGRAIN

GENOMIC SCIENTIST

- Initiate and lead the deployment of predictive genomic breeding to fully exploit linkage blocks via targeted haplotype breeding.
- Validate and improve prediction models via cross validation and simulation studies.
- Engage and lead research projects with the broader scientific community around novel techniques and tools that will have positive impact on integrated genomic breeding.

The successful applicant will bring:

- Demonstrated ability to communicate and work effectively in a multi-disciplinary team and collaborate with scientists both internal and external.
- Ph.D. in either Quantitative Genetics, Plant Breeding and Genetics, Computational Biology, Data Science, or other relevant scientific fields.
- Demonstrated expertise in curating large molecular marker datasets and running a suite of genomic prediction models.
- Experience with running simulation studies, and the ability to quickly acquire the knowledge of applying machine learning or other computational approaches.
- Statistical knowledge through coursework and/or demonstrated statistical application in descriptive and inferential statistics, general linear models, non-linear regression, Bayesian methods, and statistical experimental design.
- Sound computational skills: ASReml, SAS, S+ / R, or equivalent, Python, and preferably knowledge of a variety of commercial packages.
- Demonstrated ability to concisely document and discuss results with internal scientists and engage with strategic forward planning and alignment of genomic resources.

APPLY NOW

To apply please send a covering letter introducing yourself and addressing the selection criteria along with your resume to;

Amanda Booth - abooth@intergrain.com