As global demand for food and fuel continues to rise, we are dedicated to our purpose: Bringing plant potential to life. Syngenta is one of the world's leading companies with more than 24,000 employees in over 90 countries. We work in a collaborative and inspiring culture where personal contribution is rewarded and growth and development are at the heart of our culture.

Through our world-class science, global reach and commitment to working with our customers, we help to increase crop productivity, protect the environment and improve health and quality of life.

There's never been a more important time to join Syngenta.

Statistical Geneticist (Scientist I or II) – Research Triangle Park, NC - 1291

Role Purpose –
The primary purpose of the Statistical Geneticist is to develop and implement statistical methods for linkage and association analysis to detect and characterize the genetic factors underlying complex traits (eg. yield, stress tolerance, etc.). In a highly team-oriented environment the Scientist will support Native Trait Project Leaders and implement emerging statistical tools and methodologies, and will enable the generation and distribution of readily applicable trait-specific genetic information culminating in Native Trait enhanced products.

Accountabilities
• The scientist will be responsible to apply advanced statistical methods, computer science skills and bioinformatics principles to analyze genotypic and phenotypic data from a wide variety of genetics studies, including large-scale whole genome association, transmission disequilibrium, linkage studies and population genetic studies.
• The successful candidate will use this experience to develop analysis workflows and help in the automation of these workflows.
• The candidate will also be responsible for developing statistical methodology to leverage the use of existing breeding populations for developing marker: trait associations.
• In order to accurately identify the required novel analytical approaches, this individual will be trained on most commercially available software packages in the field of statistical genetics and will work closely with the computational biology group to fully understand the different algorithm details, advantages and limitations.

Knowledge, Experience & Capabilities –

Ph.D. in Statistical Genetics / Mathematics / Bioinformatics / Computer Science
• Experience in analysis of genetic and phenotypic data, including whole-genome mapping studies by association and linkage, haplotype analysis, population genetics, and admixture analysis, etc.
• Computer skills: High degree of proficiency with: OS: Linux / Unix, Windows ; Programming: Perl, C++
• Statistical software: R / S-Plus / SAS / JMP / ASREML
• Previous experience with mixed-model and/or Bayesian methods for genetic evaluation.
• Ability to work as part of a high performance multi-disciplinary team.
• Ability to handle several projects simultaneously.

- Excellent verbal and written communication skills
- Strong initiative and demonstrated ability to take ownership of and provide solutions to challenging problems

Critical knowledge
- Expertise in statistical genetics
- A thorough knowledge of plant or animal breeding theory and Mendelian genetics (experimental designs, descriptive and test statistics, genetic gain theory, genetic models, etc.).

Critical experience
- Demonstrated experience in specific projects and success in the area or a related area.

Critical technical, professional and personal capabilities
- Excellent organization, communication and analytical skills. Excellent interpersonal skills, especially those required to successfully function as part of cross-functional and cross-cultural teams. Ability to understand and communicate complex instructions. Capacity to innovate in a focused and product-oriented manner.

Critical leadership capabilities
- Decisive
- Trusted
- Customer-Focused
- Results-Oriented
- Communicative
- Team-Oriented
- Innovative
- Initiative
- Analytical thinking

Critical success factors:
Excellent organization, communication and analytical skills. Excellent interpersonal skills, especially those required to successfully function as part of cross-functional and cross-cultural teams. Ability to understand and communicate complex instructions. Capacity to innovate in a focused and product-oriented manner.

Additional Information:
A minimum of 2 years in current position is required (requirement for internal applicants only)
- All applicants must be eligible to work in the US.
- Some travel by car and plane.
- Periods of intense work at critical times of the projects
- Indoor – extensive work at a computer for long periods of time.

Syngenta offers a competitive salary and benefits package, including market-based pay, health/dental insurance, a generous 401(k) program, paid time off, tuition reimbursement and relocation assistance.

Qualified candidates should apply today! Please submit your application online at www.syngentacareers.com. EOE