

Director/Senior Director, Informatics & Information Technology

Syros Pharmaceuticals is pioneering the understanding of the non-coding region of the genome to advance a new wave of medicines that control expression of disease-driving genes. Syros has built a proprietary platform to systematically and efficiently analyze this unexploited region of DNA in human disease tissue to identify and drug novel targets linked to genomically defined patient populations. Because gene expression is fundamental to the function of all cells, the Company's gene control platform has broad potential to achieve profound and durable benefit across a range of diseases. Syros is focused on cancer and immune-mediated diseases and is advancing a growing pipeline, including its lead drug candidates SY-1425, a selective RAR α agonist for genomically defined subsets of patients identified by its platform, for a range of cancers including acute myeloid leukemia and myelodysplastic syndrome, and SY-1365, a selective CDK7 inhibitor for a range of blood cancers and solid tumors. Led by a team with deep experience in drug discovery, development and commercialization, Syros is located in Cambridge, Mass.

Description

The Director/Senior Director, Informatics & Information Technology will provide leadership for planning, architecture, implementation and ongoing management of effective computing and data management solutions to support Syros' scientific, clinical and business objectives. S/he will have hands-on responsibility for all aspects of IT infrastructure, networking, data integrity and security in a highly-regulated environment. S/he will support scientific and clinical research by enabling R&D staff to leverage Syros' research computing and data management infrastructure in order to advance the company's research and development mission.

Major Duties

- Develop and implement Syros' long range IT strategy.
- Work cross-functionally to gain a deep understanding of employees' computing needs and translate those into technical solutions, including design and implementation of those solutions.
- Provide leadership and expertise in selection of new and emerging software and hardware solutions that enhance Syros' operations and/or improve their efficiency.
- Maintain and improve current multi-server high-performance computing (HPC) and data storage infrastructure.
- Identify gaps in the computing infrastructure and translate organizational needs into technical solutions.
- Apply professional knowledge of innovative approaches to link information from diverse sources in novel ways, and develop applications towards this objective.
- Identify and implement methods of simplifying end-user consumption of research computing and data management resources, including building or providing graphical user interfaces for those non-technical researchers who need to use technical computing infrastructure.
- Establish and build relationships with vendors, including evaluating vendor capacity and

performance.

- Manage external help desk and other vendors to ensure that end users receive optimal support to maximize their productivity.
- Oversee implementation of all software systems, including enterprise resource planning (ERP) packages.
- Implement effective security features and controls for IT systems and their components, firewall, server software installation, configuration, management, computer security updates, server backups, facility physical access control systems, and the local area network (LAN).
- Drive IT compliance programs related to Sarbanes-Oxley (SOX), data privacy and HIPAA that ensure compliance with regulatory standards and industry best practices.
- Keep abreast of emerging platforms and build scalable infrastructure that meets the ever-increasing computational demands of high-throughput technologies.

Knowledge, Skills and Abilities

- BS in informatics, computer science or related discipline; M.S. or Ph.D. preferred.
- 10+ years' relevant experience in genomics-heavy biopharmaceutical or research environments; background in "data lake" management and HPC preferred.
- Strong verbal and written communication skills; ability to communicate and work effectively with individuals and teams to plan work, resolve problems, present recommendations, answer questions, and influence and persuade others to cooperate in meeting research and business objectives.
- Ability to evaluate emerging technologies and their applications to processes that impact Syros' research and business objectives.
- Confidence to make strategic technical decisions or recommendations that significantly influence sustainability of information systems and their ability to be continually enhanced, and cost-effective.
- Sufficient scientific/technical knowledge of genetics, genomics, cheminformatics, or bioinformatics to understand and anticipate needs of R&D staff; knowledgeable of computational workflows in high-throughput next-generation sequencing used in pharmaceutical or academic research.
- Ability to apply cross-disciplinary expertise to provide expert technical advice, guidance, and recommendations to management and other technical specialists on critical IT issues associated with pharmaceutical research and development.
- Skill at designing, developing, testing, and implementing programs and procedures using modern software development environments.
- Ability to automate tasks through scripting, familiarity with multiple programming languages such as R, Perl, Python, Ruby, Scala, C /C++, Fortran, or Java.
- Strong facility with Linux operating systems.
- Efficient, well organized, adaptable and able to meet short deadlines in a dynamic environment.