

Insourcing SolutionsSM

Charles River Insourcing SolutionsSM can streamline your research by delivering operational and cost efficiencies through the strategic insourcing of research management services. Our broad scope of in vivo and laboratory services encompasses both GLP and non-GLP technical support work from discovery through safety assessment, ultimately bringing new compounds to market faster and more efficiently. Insourcing SolutionsSM provides you with the ability to maintain control of your facility and expertise while leveraging available space.

The entire Charles River portfolio of *in vivo* and laboratory services, 65 years in the making, is available to you at your facility. A partnership with Insourcing SolutionsSM provides you with long-term functional support for your research and drug development programs.

Advantages of Partnering with Insourcing SolutionsSM

- **Expertise:** Access to the entire Charles River portfolio of services and science, which includes a network of over 8,000 employees in 60 countries
- **Better control:** Maintain as little or as much control as desired (control of key scientific research facilities, assets and studies performed in-house)
- **Cost savings:** Reduce variable costs by up to 20%
- **Higher flexibility:** Scale up or down depending on pipeline needs
- **Optimize occupancy and utilization:** Use existing on-site space and/or Charles River space
- **Broad scope of *in vivo* and laboratory services:** GLP and non-GLP support from discovery through safety assessment
- **Specialists:** Expert human resources management team

BASIC RESEARCH

DISCOVERY

SAFETY ASSESSMENT

CLINICAL SUPPORT

MANUFACTURING SUPPORT

Integrated Insourcing

Due to the dynamic nature of biomedical research, you may find your facility needing additional management resources to support your research and drug development programs. Charles River Insourcing SolutionsSM meets this need with our integrated insourcing model. From discovery through safety assessment, we provide support for every aspect of the research process. We work directly with you to implement the research support necessary to meet your program goals.

Scientific Staffing and Facility Management

Depending on the research requirements, the staff you need may require qualifications ranging from animal husbandry personnel to PhD. We work with you to define the most appropriate combination of skills and qualifications to fulfill your facility's needs.

We can provide a wide range of scientific talent, including, but not limited to:

- Managers (project, laboratory, animal facility, etc.)
- Scientists (MS to PhD level)
- QA and QC specialists
- Administrative professionals
- Board-certified veterinarians
- Aquatic specialists
- "Cage to benchtop" transgenic technicians
- Cage wash and animal husbandry personnel
- Regulatory specialists (FDA, EPA, OECD, IACUC, OLAW)
- Veterinary technologists

Today, Insourcing SolutionsSM has more than 800 employees staffing research facilities in the government, commercial and academic sectors, with over 18 million square feet under management around the globe.

Expert Consulting

When establishing a new project or evaluating an existing one, our consulting services can assist you in a number of important ways. With more than 65 years experience and backed by a professional team consisting of 600 PhDs, DVMs and MDs, we provide expertise across many fields. These include regulatory compliance, animal care and use programs, facility evaluations, facility design and biosecurity practices, as well as the development, implementation and evaluation of standard operating procedures (SOPs). Both short- and long-term consultancy options are available to support your facility and research programs.

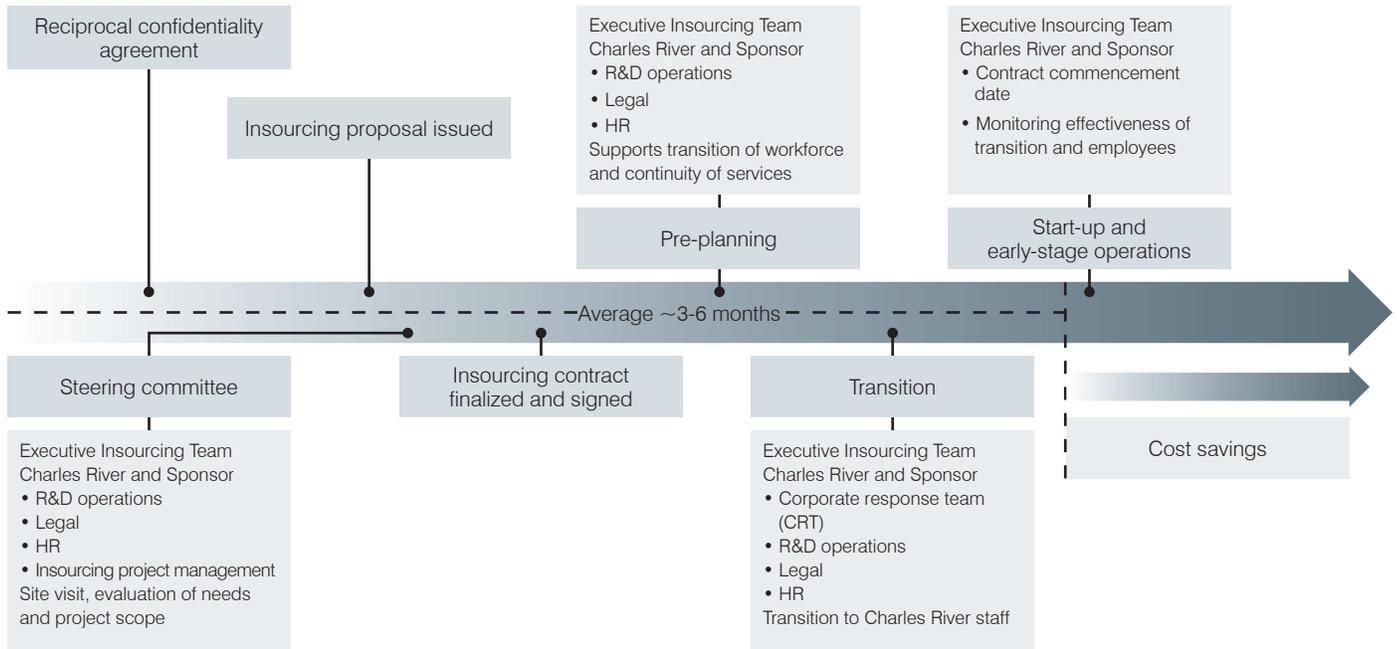
Customized Training

A highly trained staff is an integral component to achieving your research goals. To help you develop and maintain that level of expertise, we offer a wide range of courses (on-/off-site) that can be customized to meet your staff's specific training needs. We offer both didactic and hands-on instruction in actual and simulated research environments. Our expert trainers can design a program to fulfill your training requirements, while assuring regulatory compliance and upholding the scientific integrity of your research.

In addition to on-site training at your facility and distance learning programs through webinars and e-learning, we have a dedicated Charles River Training Center (CRTC) located near Washington, DC. This training facility has the capacity to train personnel in a multitude of animal and benchtop biosafety environments.

Getting Started with Insourcing SolutionsSM

Implementation Process and Timeline



This timeline reflects a generalized overview of the Charles River Insourcing SolutionsSM project implementation process. Some steps of the process may vary depending on region/location.

Human Resource Management

When partnering with Insourcing SolutionsSM, we manage the entire human resources process from recruiting and training to placement and oversight. We employ a comprehensive approach to ensure that employee skills match defined job requirements.

With our nationwide network of research staffing support and extensive corporate resources, Insourcing SolutionsSM is able to provide you with the flexibility to adapt to changes in your research support needs.

- Recruiting and hiring
- Employee training
- Performance assessment
- Retention programs
- Policies and practices
- Career pathways

Insourcing SolutionsSM Capabilities

Human Resources	Navigator Services	Facility Engineering and Design	Training Services
<ul style="list-style-type: none"> • Recruiting and hiring • Employee training • Performance assessment • Retention programs • Policies and practices • Career pathways 	<ul style="list-style-type: none"> • Program management • Timeline and budget emphasis • Logistical support • Resource management 	<ul style="list-style-type: none"> • Program concept • Basis of design (BOD) development • Technical services • Architectural and MEP engineering documents 	<ul style="list-style-type: none"> • Adult learning • Workshops • On-/off-site training • e-learning • Multiple species • Surgical procedures
Laboratory Equipment	Discovery	Animal Health	Surgical Services
<ul style="list-style-type: none"> • Isolators • BioModules • Caging alternatives • Crates • Leveraged buying power 	<ul style="list-style-type: none"> • <i>In vivo</i> disease models • Histology/immunochemistry • Non-GLP toxicity • PK/PD • <i>In vitro</i> products and services 	<ul style="list-style-type: none"> • Veterinary care • Health monitoring • Diagnostic assay development • Biosecurity • Genetic programs • Disease model breeding 	<ul style="list-style-type: none"> • Vascular catheterizations • Cardiovascular procedures • Neurological procedures • Device implants • Surgical support
<i>In Vivo</i> Laboratory Management	Safety Assessment	Regulatory Compliance	Biopharma
<ul style="list-style-type: none"> • Staffing and supervision • SOP development • Preparation for accreditation • Efficiency learning • Lean Six Sigma • Biosecurity audits 	<ul style="list-style-type: none"> • DMPK • Investigative new drug (IND) timelines and program guidance • Formulation and analytical chemistry • Developmental and reproductive pathology • Toxicology services 	<ul style="list-style-type: none"> • Quality assurance audits • Report preparation • GLP and non-GLP • FDA, EPA, OECD, IACUC, OLAW advisory expertise 	<ul style="list-style-type: none"> • Early-stage manufacturing • <i>In vivo</i> biosafety and potency • Product release testing • Stability testing • Vaccine safety testing

RightSourceSM

As pharmaceutical and biotech companies look to improve efficiencies and reduce costs, they are beginning to evaluate strategic sourcing initiatives, including closer collaboration with contractors and increased externalization of their quality control (QC) testing programs. The Charles River RightSourceSM program removes the challenges of externalizing biologics testing by providing customized options that allow companies to maintain as much or as little control over their in-house resources, capital assets and facilities as they consider strategic and cost-efficient. We work with companies to evaluate their QC testing programs by reviewing their current testing structure and selecting the best-suited and most affordable mix of insourcing and outsourcing options.

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