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NRC's Innovative Approach Helps Drive Canadian Business Success

The National Research Council (NRC) is the federal government's premier research and technology organization (RTO). Our reputation has been shaped by 100 years of historic scientific breakthroughs and innovations affecting the lives of Canadians and people around the world. As we celebrate our centennial in 2016, we've positioned our organization as a leader in providing Canadian companies with the innovation support they need to grow their business and be globally competitive. Our offerings include specialized research

and development (R&D) services, capabilities and facilities to bring valuable technologies to market. We also work with companies on collaborative strategic R&D opportunities that can benefit them, the Canadian economy and the nation's well-being.

We deliver our offerings along four business lines: strategic R&D, technical and advisory services, the Industrial Research Assistance Program, and specialized research infrastructure. This means we're able to use NRC resources to assist clients from concept through full commercialization of their R&D, if that is what they need. Providing support at every step of the process is the best way to help innovative Canadian companies become more successful.

Our strategic R&D service works on a partnership model where we provide clients with research that can de-risk their

innovations and accelerate their standing in the commercial realm required for success. Recently, we worked with biOasis Technologies and KalGene Pharmaceuticals to co-develop new treatments for brain diseases including brain cancer and Alzheimers. A joint program with industry partners and Defence Research and Development Canada is developing next-generation products for the international security and defence markets. And our work with EUREKA, the international network for industrial research and development, amounted to \$46 million worth of projects in 2015 alone.

Our suite of technical and advisory services provides clients with specialized, fee-for-service support as they work to solve key technical challenges. We help with testing and certification, calibration, prototyping, demonstrating and consulting in such areas as biologics, advanced

materials, infrastructure and transportation, information, communications and security technologies. These services help clients accelerate their design cycles and identify the performance limits of their products early in the development stage. Most recently, our technical and advisory service has helped Raymor Industries commercialize semiconductor inks, and TeraXion Inc. develop an ultra-fast transmitter for fibre optic networks.

Our Industrial Research Assistance Program, or IRAP as it is better known, supports small and medium-sized enterprises (SMEs) through every aspect of the innovation process – from concept to commercialization. Our advisors provide technical and business advice, referrals and a wide range of innovation services – to meet client needs. We also provide SMEs with financial support where appropriate. In 2015, IRAP worked with

more than 12,000 SMEs, creating average aggregate growth of 17 percent in their business.

Finally, 100 years of R&D has provided us with an impressive array of specialized scientific infrastructure that spans the country. We're dedicated to ensuring major infrastructure such as wind tunnels, water basins, sophisticated laboratories and pilot plants support collaborative innovation. In providing this specialized service, we make sure business and academia are able to access our unique facilities located across the country.

NRC is focused on growing these four business lines to enable leading-edge, responsive, market-focused solutions. Working together with business and other partners, we're convinced that our approach will help Canada increase its economic competitiveness and sustain its prosperity.