Tax Exemption for Foreign Postdoctoral Trainees

Guide to Obtaining an Eligibility Certificate From the Minister of Higher Education





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Introduction

The purpose of this tax exemption measure is to increase the ability of Québec universities to attract or recruit foreign postdoctoral trainees¹ in areas of expertise in which the universities are experiencing recruitment difficulties. The areas of expertise targeted by this measure are pure and applied sciences and their related fields.

An individual who does not live in Canada immediately prior to entering into an employment contract or immediately before starting work as a postdoctoral trainee at an eligible university or public research centre may benefit from a tax exemption from the Québec government provided they satisfy the eligibility criteria set out in section 737.22.0.0.1 of the Québec *Taxation Act* (c. I-3), as listed in Schedule D, Chapter II of the *Act respecting the sectoral parameters of certain fiscal measures* (c. P-5.1).

The conditions to be met in order to benefit from this tax exemption measure include the employer's obligation to obtain an eligibility certificate from Québec's Minister of Higher Education (hereafter the certificate). This certificate, issued by the Minister, must be renewed annually, and may be granted for a maximum period of five years. This guide contains all the information on the eligibility criteria and the conditions for obtaining a certificate.

Eligibility criteria

For an individual who is hired as a postdoctoral trainee at an eligible public research centre within the meaning of paragraph *a*.1 of section 1029.8.1 of the Québec *Taxation Act*, or at an eligible university entity (see Schedule 1 – List of eligible Québec universities) within the meaning of paragraph *f* of the same section, to be eligible for the tax exemption, certain conditions specified in section 737.22.0.0.1 of the Québec *Taxation Act* must be met:

- 1. At any given time after March 31, 1998, the individual takes up employment, as an employee with an eligible employer under an employment contract entered into with that employer after that date.
- 2. The individual is not a resident of Canada immediately before entering into the employment contract or immediately before taking up employment with the eligible employer.
- 3. From the given time to the end of the year or the part of the year:
 - a) the individual works exclusively or almost exclusively for the eligible employer
 - b) the individual's duties for the eligible employer consist exclusively or almost exclusively in carrying on, as an employee, scientific research and experimental development
- 4. The eligible employer has obtained in respect of the individual a certificate issued by the Minister of Higher Education for the taxation year, after having applied for it in writing before March 1 of the following calendar year, and that certificate, which has not been revoked in respect of the year or the part of the year, certifies that the individual is specialized in the field of pure or applied science or a related field, holds a doctoral degree (Ph.D.) and performed, exclusively or almost exclusively, their duties as a researcher within the framework of a postdoctoral internship for the employer.²

The Minister of Higher Education is responsible only for condition (4), which is the non-tax parameter of this tax measure.

¹ The term "postdoctoral trainee" refers to "foreign researcher on a postdoctoral internship" mentioned in the Québec *Taxation Act.*

² As stated in the Québec *Taxation Act*, Chapter I-3, section 747.22.0.0.1, updated to June 18, 2019.

Issuance of an eligibility certificate

For a postdoctoral trainee to be eligible for the tax exemption measure, the employer must first obtain, for the employee, a certificate. This certificate is an essential condition for obtaining the tax exemption but does not guarantee that the tax exemption will be granted.

As specified in Schedule D, Chapter II, Division II, of the *Act respecting the sectoral parameters* of certain fiscal measures (Act), the eligibility certificate issued by the Minister of Higher Education certifies that the employee:

- 1) is specialized in the field of pure or applied science or a related field
- 2) holds a doctoral degree (Ph.D.) or an equivalent degree recognized by a Québec university in the field of pure or applied science or a related field that was granted less than five years ago
- 3) is serving a full-time postdoctoral internship as a researcher with the employer for a set term
- 4) is performing their duties with the employer exclusively or almost exclusively, on a continuous basis, as a researcher within the scope of the postdoctoral internship in the field of pure or applied science or in a related field

To identify the fields eligible for the tax exemption, the Ministère de l'Enseignement supérieur has agreed to use the discipline classification system of the Fonds de recherche du Québec (FRQ) (Society and Culture, Health, Nature and Technologies). This classification has the advantage of being familiar to and used by the universities. This list is presented in Schedule 2 – List of eligible fields. According to the FRQ's classification system, **the eligible fields for postdoctoral trainees are as follows:**

Eligible fields under the Act	FRQ related	FRQ reference fields
Pure or applied science or a related field	Health	All fields
	Nature and Technologies	All fields

The certificate is issued in the name of the researcher who is a postdoctoral trainee and is sent to the eligible university or public research centre. The Minister of Higher Education reserves the right to revoke a certificate on the basis of information received subsequent to the examination of the application.

Note

The role of the Minister of Higher Education is limited to the issuance of eligibility certificates.

Although obtaining this certificate is a necessary condition for Revenu Québec to approve the application, it does not confirm the eligibility of the individual for the tax exemption.

In addition, the university or research centre must maintain provincial tax deductions at source, since any refusal by Revenu Québec will result in the requirement that the uncollected amount be repaid.

As with all other tax provisions, this measure is administered by Revenu Québec, which is the sole authority for granting such a tax exemption.

The responsibility lies with the employer and the employee for whom the application is made to ensure that they meet all the other legal requirements that this tax exemption measure requires.

Submission of an application for a tax exemption eligibility certificate

The application for a certificate must be submitted before March 1 in the year after the later of the following two dates: the date on which the contract was entered into or the date on which the applicant began work as a trainee. The applicant may then be eligible for five years from the date on which they began work.

The university's designated representative must make the initial application by completing the following protected electronic form: *Application form for an Eligibility Certificate, Tax Exemption Program – Foreign Postdoctoral Trainees.* The form and all the required documents listed below must then be submitted by the university before the deadline. After this date, the form will no longer be available.

The application for an eligibility certificate **must** be accompanied by the following documents:

- a copy of a document confirming the applicant's appointment as a postdoctoral trainee employed by the eligible university or public research centre
- a certified true copy of the applicant's doctoral (Ph.D.) degree or equivalent recognized by the
 university; diplomas in languages other than French, English, Spanish or Latin must be
 translated by a member of the Ordre des traducteurs, terminologues et interprètes agréés du
 Québec (OTTIAQ)
- a copy of the abstract (summary) of the applicant's doctoral (Ph.D.) thesis in French
- the applicant's job description and list of duties
- a copy of the applicant's up-to-date curriculum vitae
- a copy of the applicant's work permit issued by Citizenship and Immigration Canada whose dates correspond to the applicant's start date

Submission of an application for renewal of a tax exemption eligibility certificate

The application for renewal must be made annually for each certificate issued by the Minister. These certificates may be renewed up to a maximum duration of five years. The university's designated representative must apply by completing the following protected electronic form: Application form for a Renewal of an Eligibility Certificate, Tax Exemption Program – Foreign Postdoctoral Trainees.

The application for renewal must be submitted before March 1 of the year following the year of the renewal. After this date, the form will no longer be available.

Additional information

The exemption applies to Québec provincial tax only. The eligibility period is five years and is determined by Revenu Québec.

Information on obtaining a certificate	Please submit your question: - by email at Exemption.lmpot@mes.gouv.qc.ca - by telephone at 418-643-2839, extension 3192
Information on the tax exemption measure	Consult the information bulletins available under the Publications tab of the Ministère des Finances' website (http://www.finances.gouv.qc.ca): - 2000-4 - New fiscal measures to support social and economic activity in Québec (June 29,2000) - 2000-5 - Adjustments to fiscal policy applicable to individuals and corporations (October 6, 2000) - 2002-13 - Clarifications concerning gifts made to political education organizations whose mission is to promote the sovereignty of Québec, designation of a new biotechnology site in Saint-Hyacinthe and other fiscal measures (page 17) (December 19, 2002) - Additional Information on the Fiscal Measures (June 12, 2003)
Information on non- resident status or on obtaining a tax exemption from Revenu Québec	Please: - call Renseignements fiscaux spécialisés for individuals in business at 1-800-267-6299 - consult the Interpretation and Administrative Bulletins Concerning the Laws and Regulations whose application is entrusted to Revenu Québec. These documents are available on the following website: https://www.revenuquebec.ca/en/about-us/documents/revenu-quebec-tax-documents-available-online/interpretation-bulletins-and-interpretation-letters/
Information on immigration procedures	Please visit the following website: http://www.immigration-quebec.gouv.qc.ca/en/index.html

Schedule 1 – List of eligible Québec universities

- Bishop's University (BU)
- Concordia University (CU)
- École de technologie supérieure (ETS)
- École des hautes études commerciales de Montréal (HEC)
- École nationale d'administration publique (ENAP)
- École Polytechnique de Montréal (EPM)
- Institut national de la recherche scientifique (INRS)
- McGill University (MGU)
- Télé-université (TELUQ)
- Université de Montréal (UM)
- Université de Sherbrooke (US)
- Université du Québec (UQ)
- Université du Québec à Chicoutimi (UQAC)
- Université du Québec à Montréal (UQAM)
- Université du Québec à Rimouski (UQAR)
- Université du Québec à Trois-Rivières (UQTR)
- Université du Québec en Abitibi-Témiscamingue (UQAT)
- Université du Québec en Outaouais (UQO)
- Université Laval (UL)

Schedule 2 – List of eligible fields

FONDS DE RECHERCHE DU QUÉBEC - SOCIETY AND CULTURE

Not applicable to postdoctoral trainees

FONDS DU RECHERCHE DU QUÉBEC - HEALTH

Musculoskeletal Health and Arthritis

Locomotor Activity / Movement Disorders

Oro-Dental Disorders

Skin Disorders

Arthritis / Osteoarthritis

Joints (Articulations)

Musculoskeletal Deformation

Orofacial Pain

Fibrosis

Structural Tissue Engineering / Biomaterials

Musculoskeletal Lesions and Repair

Connective Tissue Diseases

Bone Diseases

Muscular Diseases

Dental Materials

Orthoses and Prostheses

Osteoporosis

Skin

Dental Health

Scoliosis

Rehabilitation Care and Services

Muscle

Tendons and Ligaments

Connective Tissue

Bone Tissue

Trauma / Injuries

Cancer

Apoptosis and Cancers

Skin Cancer

Prostate Cancer

Head and Neck Cancer

Cancer of the Digestive System

Cancer of the Musculoskeletal System

Cancer of the Reproductive System

Cancer of the Urinary System

Lung Cancer

Leukemia

Breast Cancer

Cancer Genetics

Hormone Dependent Cancers

Carcinogenesis

Chemotherapy

Social Determinants of Cancer

Cancer Diagnosis and Detection

Cancer (cont.)

Cellular Differentiation

Cellular Division

Environment and Cancer

Growth Factors

Suppressor Gene

Hereditary Cancer

Host-Tumour Interaction

Lymphoma

Nutrition and Cancer

Oncogenes

Radiotherapy

Cell Signaling and Cancer

Stress and Cancer

Smoking and Cancer

Cell Therapy of Cancer

Gene Therapy and Cancer

Cerebral Tumours

Retinal and Ocular Neoplasms

Vaccine and Cancer

Human Genetics

Genetic Mapping

Chromosomes: Structure / Organization

Genetic Screening of Diseases

Genome Damage and Repair

Gene Regulation and Expression

Genes

Susceptibility Genes

Applied Genetics

Complex Trait Genetics

Developmental Genetics

Genetics and Ethics

Genetics and Heredity

Evolutionary Genetics

Molecular Genetics

Population Genetics

Genome

Genomics

Gene Environment Interactions

Genetic Diseases

Genetic Markers

DNA and RNA Chips

Transgenic Model

Mutation (Process)

Phenotype

Polymorphism

Proteins

Proteomics

Telomeres

Gene Therapy

Infection and Immunity

Allergies

Antibiotics and Resistance

Antibodies

Antigens

Antivirals

Bacteria

Burns and Infections

Septic Shock

Cellular Defense

Social Determinants of Infectious and Immune-Meditated Diseases

Vaccine Development

Host Genetics

Hepatitis

Immunodeficiencies

Immunotherapy

Bacterial Infections

Fungal Infections

Parasitic Infections

Viral Infections

Leukocytes

Yeasts

Auto-Immune Diseases

Diseases of the Immune System

Infectious Diseases

Sexually Transmitted Diseases

Tropical Diseases

Immune Mediators: Cytokines and Chemokines

Parasites

Platelets

Global Health and Emerging Diseases

AIDS / HIV

Cell Signalling and Infectious and Immune Diseases

Blood Substitutes

Immune System

Cell Therapy of Infectious and Immune Diseases

Gene Therapy of Infectious and Immune Diseases

Transplantation and Graft Rejection

Tuberculosis

Vaccination

Virus

Neurosciences, Mental Health and Addiction

Cerebrovascular Accident

Language Acquisition and Development

Neuronal and Synaptic Activity

Convulsive Disorders / Epilepsy

Alcoholism

Anxiety

Apoptosis

Learning and Memory

Neurosciences, Mental Health and Addiction (cont.)

Ataxia

Autism

Huntington's Chorea

Chronobiology

Cognition

Neuronal Communication and Neurotransmission

Dementia

Depression

Nervous System Development

Pain

Growth Factors

Executive Functions

Genetics and Neurological and Psychiatric Diseases

Neuronal Transplantation and Stem Cells

Hemiplegia and Paraplegia

Alzheimer's Disease

Parkinson's Disease

Spinal Cord Diseases

Eye and Visual System Diseases

Peripheral Nervous System Diseases

Central Nervous System Inflammatory Diseases

Neurodegenerative Diseases

Neuroendocrine Diseases

Neuroimmunological Diseases

Neurological Diseases

Neuromuscular Diseases

Central Nervous System Organic Diseases

Brain Metabolism

Migraine

Neuronal Modeling

Motivation and Emotions

Neurogenesis and Gliogenesis

Neurotoxicity

Plasticity / Neuronal Regeneration

Social and Cultural Psychiatry

Receptors and Carriers

Mental Health and Society

Schizophrenia

Multiple Sclerosis

Cell Signaling

Somatization and Functional Somatic Syndromes

Sleep and Sleep Disorders

Stress

Suicide

Auditory System

Gustatory System

Motor System

Autonomic Nervous System

Olfactory System

Somatosensory System

Neurosciences, Mental Health and Addiction (cont.)

Visual System

Smoking

Gene Therapy

Drug Abuse

Cranio-Encephalic and Spinal Cord Trauma

Mood Disorders

Character Disorders

Communication Disorders

Eating Disorders

Hearing Disorders

Vestibular Disorders

Nutrition and Metabolism

Digestive System

Appetite

Nutritional Requirement

Feeding Behaviour

Endocrine Disorders

Metabolic Disorders

Nutritional Disorders

Social Determinants of Dietary and Metabolic Disorders

Development of Drug Delivery Systems

Diabetes

Poisoning

Liver

Glucotoxicity

Hormones and Growth Factors

Hyperthermia and Hypothermia

Renal Insufficiency / Failure and Malabsorption

Intestinal Malabsorption and Cholestatic Syndromes

Crohn's Disease

Hepatic Diseases

Lipid Disorders

Metabolic Diseases

Renal Diseases

Metabolism

Toxin and Toxicant Metabolism

Drug Metabolism

Energy Metabolism

Nutrients

Nutrition

Obesity

Pancreas

Gastrointestinal Pathologies

Urogenital Pathologies

Digestion

Nutraceutical and Functional Foods

Hormonal Regulation

Endocrine system

Urogenital System

Nutrition and Metabolism (cont.)

Renal system

Toxicology

Circulatory and Respiratory Health

Anemia

Aneurism

Angiogenesis

Respiratory Device

Peripheral Arteriopathy

Arrhythmia

Asthma

Atherosclerosis

Congenital Cardiopathies

Stem Cells and Organogenesis

Blood Flow and Transfusions

Social Determinants of Cardiovascular Diseases

Social Determinants of Respiratory Diseases

Endocarditis

Environment and Respiratory Diseases

Cardiac Fibrosis

Cystic Fibrosis

Pulmonary Fibrosis

Hypertension (Arterial and Cardiac)

Pulmonary Hypertension

Cardiac Hypertrophy

Heart Failure

Coronary Heart Diseases

Chronic Obstructive Pulmonary Disease

Cardiovascular Diseases

Inflammatory Respiratory Diseases

Occupational Lung Diseases

Phlebitis

Pneumopathies

Prostheses and Vascular Substitutes

Cell Signaling

Cardiovascular System

Cell Therapy

Thrombosis and Embolism

Heart Transplantation

Lung Transplantation

Heart Valve / Valvular Diseases

Child, Youth and Maternal Health

Child Abuse and Negligence

Youth and Eating Disorders (Eating Disorders Among Youth)

Breastfeeding and Infant Nutrition

Congenital Anomalies

Intrauterine Developmental Abnormalities

Autism

Prenatal and Neonatal Screening

Postpartum Depression

Child, Youth and Maternal Health (cont.)

Social Determinants of Child and Youth Development

Cognitive Development in Children

Infant / Child Development

Embryonic Development

Cystic Fibrosis

Gestation / Parturition

Drugs and Pregnancy / Breastfeeding

Cerebral Palsy

Newborn Diseases

Newborn Respiratory Diseases

Perinatal Period

Preeclampsia

Prematurity

Growth Retardation

Mental Retardation

Mental Health and Psychopathology in Children and Youth

Sudden Infant Death Syndrome

Prenatal and Perinatal Trauma

Behavioural Disorders in Children and Adolescents

Learning Disorders in Children

Attention Deficit and Hyperactivity Disorders

Speech and Language Development Disorders

Childhood Vaccination

Population Health

Culture and Health

Social Determinants of Health

Law and Health (Health and Legislation)

Human and Social Ecology

Ethics and Health

Family and Care Givers

Lifestyle Determinants and Health

Pharmacoeconomics

Pharmacoepidemiology

Preventive Health Care

Health Promotion

Community Health / Public Health

Indigenous Peoples' Health (Aboriginal Health)

Environmental Health

Occupational Health and Safety

Paramedical Sciences

Gender and Health

Andropause

Birth Control

Menstrual Cycle and Associated Problems

Sexual Dysfunctions

Endometriosis

Gender Epidemiology

Hormone Replacement Therapy

Female Infertility

Gender and Health (cont.)

Male Infertility

Sexually Transmitted Diseases

Reproductive Biology and Dysfunctions

Menopause

Prostate

Endocrine Regulation

Steroids

Fertility Technologies

Female Urogenital System Disorders

Male Urogenital System Disorders

Health Services

Emergency Medicine

Health Care Organization

Health Policies

Professional Practices

Hotline Services

Health Services

Home Care Services

Long-Term Care Services

Hospital Care Services

Nursing

Intensive Care

Palliative Care

Health Information Systems

Diagnostic Techniques

Health Care Technologies

Telemedicine

Aging

Age and Risk Factors

Social Aspects of Aging

Cerebral Atrophy

Cellular Degeneration

Genetics of Aging

Chronic Diseases in Elderly

Neurodegenerative Diseases

Cognitive Neuropsychology of Aging

Nutrition and Aging

Loss of Independence

Drug Administration and Drug Interactions

Aging Process

Quality of Life and Aging

Intergenerational Relations

Cellular Aging

FONDS DE RECHERCHE DU QUÉBEC – NATURE AND TECHNOLOGIES ENERGY – (FRQ-NT)

Energy Production

Biomass (Energy)

Fossil Fuels

Solar and Wind Energy

Hydroelectricity (energy)

Nuclear and Fusion

Energy Transformation and Energy Use

Energy Networks and Distribution

Energy Saving (Conservation)

Electrochemical and Fuel Cells

Energy Saving Planning

Energy Storage

Hydrogen Technology

Energy Transportation (Power Transmission)

Electric Power Lines

Pipelines

Oil or Gas Tankers

ENVIRONMENT - (FRQ-NT)

Water

Potable Water (Drinking Water)

Fresh Water

Groundwater and Water Tables

Wastewater

Ice and Snow

Water / Continent Interfaces

Marine Environment

Coastal Sedimentation

Air

Atmosphere (including Chemical Aspects)

Climate Change, Impacts

Atmospheric Disturbances (lightning, rain, etc.)

Atmospheric Pollutants

Wave Pollution (noise, microwaves, electromagnetic fields)

Climate Forecasting and Modeling

Earth (Land and Soil)

Surveying and Land Management

Industrial and Urban Contamination of Land

Mining and Petroleum Contamination

Geomatics

Geological and Geomorphological Processes

Natural Risks

Soil and Sediments

Pollutants

Chemical Pollutants

Flammable or Explosive Products

Radioactive Substances

Toxins and Other Biological Substances

Ecology and Quality of the Environment

Protected Areas

Biodiversity and Biocomplexity

Biogeography

Bioremediation

Ecosystem (aquatic and terrestrial)

Vulnerable and Threatened Species

Landscape and Restoration

Ecological and Ecophysiological Processes

Management and Protection

Natural Risk Control

Soil Decontamination

Clean Technologies

Liquid and Gaseous Waste Treatment

Urban, Industrial and Agricultural Wastewater Treatment

Recycling and Processing of Solid Waste

MANUFACTURING AND CONSTRUCTION – (FRQ-NT)

Manufacturing Processes

Quality Control

Material Degradation

Industrial Design

Human Factors in Manufacturing

Manufacturing Impacts

Industrial Logistics

Prefeasibility Studies on a Pilot Scale

Preparation and Processing (Preparation and Transformation)

Product Testing and Properties

Prototyping

Robotics and Automation

Health and Safety

Industrial Processes

Bioprocesses and Biomedical Systems

Heating and Refrigeration

Packaging and Recycling (Wrapping and Recycling)

Moulding (Milling)

Chemical Processes

Mechanical and Physical Processes

Reticulation and Hardening

Drying and Lyophilization

Thermodynamics

Heat Transfer

Mass Transfer

Machining and Assembling

Design (Conception)

Sensors and Devices

Material Design

Equipment

Instruments

Machinery

Construction Technologies

Civil Engineering Works

Dams

Buildings

Drilling Platforms (Oil Rigs)

Bridges

Degradation and Aging of Civil Engineering Works

Dynamic Phenomena of Civil Engineering Works

Structural Resistance

Seismic Resistance

MATERIALS - (FRQ-NT)

Basic Materials

Concrete and Cement

Wood

Ceramics and Glass

Organic or Synthetic Materials

Metals and Alloys

Stones and Silicates

Textiles, Fabrics and Leather

Functional and Intelligent Materials

Shape Memory Alloys

Biomaterials

Composites

Films, Membranes and Multiphase Polymers

Gels and Foams

Plastics (Transformation)

Polymers

Coatings

Nanotechnologies

Nanomaterials

Nanoparticles

Nanosystems

Supramolecules and Self-Assembly

NATURE AND INTERACTIONS OF MATTER - (FRQ-NT)

Particles and Radiation

Electron and Neutron

Radiation-Matter Interactions (Light-Matter Interactions)

Elementary Particles

Plasmas

Atoms and Molecules

Combinatorial Chemistry

Inorganic and Organometallic Compounds

Macromolecules

Metals and Non-metals

Organic Molecules and Biomolecules

Quantum Phenomena

Chemical Synthesis and Catalysis

States of Matter

Low Temperatures and High Temperatures

Gas and Critical State

Gravitation

Liquids and Solutions

Membranes

Semiconductors

Solids

Superfluids

Superconductors

Surfaces, Interfaces and Thin Layers

Colloidal and Self-assembled Systems

Phase Transitions

Earth

Geodynamics

Geotechnology

Structure and Composition of the Earth

Transformation and Evolution of the Earth's Surface

Planets and the Universe

Galactic and Cosmic Systems

Stellar Systems

Structure of the Universe

Solar and Planetary Systems

LIVING ORGANISMS (ANIMAL, MONERA, PROTIST, PLANTS) – (FRQ-NT)

Subcellular

Nucleic Acids

Enzymes and Proteins

Bioactive Molecules

Cellular

Cell

Chromosomes (Living Organisms)

Genes (Living Organisms)

Microbiology

Microorganisms

Immune Reactions

Protozoan

Viruses (Living Organisms)

Genomics and Proteomics

Bioinformatics

Biotechnologies

Genotype and Phenotype

Biological and Biochemical Mechanisms

Functional and Structural Proteomics

Biomedical Technologies

Organizational and Biological Functions

Biological Behaviour

Evolution and Phylogenesis

Glands and Tissues

Metabolism (Living Organisms)

Environments and Habitats

Morphology

Pathology

Physiology

Reproduction and Growth

Taxonomy and Systematics

LIVING ORGANISMS (HUMAN BEINGS) - (FRQ-NT)

Psychology / Biological Aspects

Learning and Memory

Cognition and Language

Sensorimotor Integration

Motivation, Emotions and Reward

Sensation and Perception

Sleep, Awakening and Chronobiological Modulation

Natural Resources – (FRQ-NT)

Agriculture

Agricultural Machinery and Technologies

Nutrition

Parasites and Diseases

Fish Aquaculture

Livestock Farming

Farming and Insect Control

Plant Production (Crop Production)

Processed Agri-Food Products

Animal Reproduction

Plant Reproduction

Plants and Forests

Other Types of Wood Processing

Pulp and Paper

Plant Production Other Than Forest Products

Sylviculture

Forestry Technologies and Equipment

Mines

Mine Exploration
Mineral Extraction Processes
Mine Exploration Technologies
Mineral Processing

Oceans and Inland Waters

Aquaculture
Other Marine and Lacustrine Resources
Hydrological Cycles and Reservoirs
Hydrography (watercourses)
Fishery Resources

ABSTRACT STRUCTURES – (FRQ-NT)

Theoretical Computer Science

Complexity
Programming Language
Mathematics of Computing
Logic Programming

Theory of Computation (Calculation Theory)

Mathematics

Algebra

Functional Analysis

Global and Non-Linear Analysis

Asymptotic and Classical Applied Analysis

Combinatorial

Number Theory

Differential Equations

Geometry

Logic

Discrete Mathematics

Topology

Statistics and Probabilities

Data Mining

Actuarial Studies

Parametric and Non-Parametric Inference

Meta-Analysis

Stochastic Processes

Computer Science and Statistics

Theoretical Statistics

Probability Theory

Computer Science and Mathematical Tools

Mathematical Analysis

Numerical Analysis

Software (Tools)

Modeling and Simulation

Optimization, Control and Operations Research

Theoretical Approach

TECHNIQUES, MEASUREMENTS AND SYSTEMS - (FRQ-NT)

Characterization Tools

Surface Characterization

Chemical Compositions

Degradation

Molecular Sizes and Shapes

Imagery

Shaping

Rheological Properties

Thermodynamic Properties

Recycling

Macroscopic Structure and Characterization

Molecular Structure and Conformation

Molecular Transport

Wave Phenomena

Acoustics

Noise and Vibration

Optical Components, Optical Fibres

Lasers

Microwaves and Hyperfrequencies

Optics and Photonics

X-Rays

Telemetry (Remote Sensing, Radar)

Vision

Electrical and Electronic Systems

Servo-Control

Integrated Circuits

Electricity Conversion and Distribution

Industrial and Power Electronics

Mechatronics

Microelectronics and Nanoelectronics

Electrical Networks

Control Systems

Electrochemical Systems

Mechanical Systems

Stress Analysis

Hydraulics

Fluid Mechanics

Solid Mechanics

Continuum Mechanics

Plasticity and Creep

Propulsion

Multiphase Systems

Turbulence

Vibrations

Transportation Systems

Transportation Equipment Merchandise Transportation

Air and Airport Systems (Aerial Systems and Airports)

Railway Systems

Roadway Systems

Space Techniques

Seaways and Bridges

COMMUNICATION AND INFORMATION TECHNOLOGIES - (FRQ-NT)

Communication

Personal Communications

Communication Materials and Equipment

Telecommunication Networks

Telecommunication Systems

Printing Systems

Teleinformatics

Transmission and Processing of Digital Signals

Information

Algorithms

Network Analysis (Information)

Computer Architecture

Computer Databases

Software Development

Computer Hardware

Computer Systems

Distributed and Simultaneous Processing

Artificial Intelligence

Virtual Reality

Speech Recognition

Shape Recognition and Computer Graphics

Expert Systems

Neuronal Systems