Natural Sciences and Engineering Research Council of Canada | Conseil de recherches en sciences naturelles et en génie du Canada

FORM 100
Personal Data Form
PART I

Date: 2013/02/28

Family name	Given name	Initial(s) of all given names	Personal identification no. (PIN)
Clarke	Charles	CLA	**Valid** 100252

☐ I hold a faculty position at an eligible Canadian college (complete Appendices B1 and C)

☐ I do not or will not hold an academic appointment at a Canadian postsecondary institution

Place of employment other than a Canadian postsecondary Institution (give address in Appendix A)

APPOINTMENT AT A POSTSECONDARY INSTITUTION

Title of position: Professor

Department: Computer Science, David R. Cheriton School of

Campus:

Canadian postsecondary institution: Waterloo

Tenured or tenure-track academic appointment — Yes [X] No [ ]

Part-time appointment [ ] Full-time appointment [X]

- For all non-tenured or non tenure-track academic appointment and Emeritus Professors, complete Appendices B & C
- For life-time Emeritus Professor and part-time positions, complete Appendix C

ACADEMIC BACKGROUND

Degree	Name of discipline	Institution	Country	Date yyyy/mm
Bachelor's	Mathematics/Computer Science	Memorial Univ. of Nfld	CANADA	1986 / 05
Master's	Computer Science	Waterloo	CANADA	1990 / 10
Doctorate	Computer Science	Waterloo	CANADA	1996 / 10

TRAINING OF HIGHLY QUALIFIED PERSONNEL

Indicate the number of students, fellows and other research personnel that you:

	Currently		Over the past six years (excluding the current year)		
	Supervised	**Co-supervised**	**Supervised**	**Co-supervised**	**Total**
Undergraduate			8		8
Master's	3		2	2	7
Doctoral	2	1	4	1	8
Postdoctoral	1		1		2
Others					
Total	6	1	15	3	25

Personal information collected on this form and appendices will be stored in the Personal Information Bank for the appropriate program.

PROTECTED WHEN COMPLETED

Version française disponible

Not Completed

ACADEMIC, RESEARCH AND INDUSTRIAL EXPERIENCE (use one additional page if necessary)

Position held (begin with current)	Organization	Department	Period (yyyy/mm to yyyy/mm)
Professor	Waterloo	Computer Science, David R. Cheriton School of	2009/07
Associate Professor	University of Waterloo	Computer Science	2002/05 to 2009/06
Assistant Professor	University of Waterloo	Computer Science	1999/08 to 2002/05
Assistant Professor	University of Toronto	Electrical and Computer Engineering	1996/08 to 1999/07
Research Associate (full time)	University of Waterloo	Computer Science	1993/11 to 1996/07
Technical Architect	SHL Systemhouse	Toronto/Los Angeles	1992/03 to 1993/10
Systems Programmer	Newfoundland Oceans Research and Development Corp.		1985/04 to 1988/07

Personal identification no. (PIN)	Family name
Valid 100252	Clarke

RESEARCH SUPPORT

Family name and initial(s) of applicant	Title of proposal, funding source and program, and time commitment (hours/month)	Amount per year	Years of tenure (yyyy)
List all sources of support **(including NSERC grants and university start-up funds)** held as an applicant or a co-applicant: a) support held in the past four (4) years but now completed; b) support currently held, and c) support applied for. For group grants, indicate the percentage of the funding directly applicable to your research. Use additional pages as required.			
a) Support held in the past 4 years			
C. Clarke, G Cormack	Heterogeneous Enterprise Content Management Open Text 10 hours/month	60,000 (50%) 60,000 (50%) 60,000 (50%) 60,000 (50%) 60,000 (50%)	2005 2006 2007 2008 2009
Charles L. A. Clarke	Information Retrieval, Question Answering and Related Applications NSERC Discovery Grant 40 hours/month	32,000(100%) 32,000(100%) 32,000(100%) 32,000(100%) 32,000(100%)	2005 2006 2007 2008 2009
Buhr, PA, Clarke, CL, Cormack, GV, and Lhotak, O	High-Performance Multiprocessor Servers for Programming Languages and Information Retrieval Research Groups NSERC Research Tools and Instruments - Category 1 20 hours/month	72,043 (25%)	2011
C. Clarke	Social network approach to determining privileged information in legal discovery situations MITACS Elevate 4 hours/month	65,000(100%)	2011

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RESEARCH SUPPORT

Family name and initial(s) of applicant	Title of proposal, funding source and program, and time commitment (hours/month)	Amount per year	Years of tenure (yyyy)

List all sources of support **(including NSERC grants and university start-up funds)** held as an applicant or a co-applicant: a) support held in the past four (4) years but now completed; b) support currently held, and c) support applied for. For group grants, indicate the percentage of the funding directly applicable to your research. Use additional pages as required.

b) Support currently held

K. Czarnecki, C. Clarke, and others	Model-Integrated Software Service Engineering Ontario Research Fund ORF Grant 10 hours/month	600,000 (4%) 600,000 (4%) 600,000 (4%) 600,000 (4%) 600,000 (4%)	2008 2009 2010 2011 2012
K. Booth, C. Clarke, and others	Graphics, Animation and New Media Networks of Centres of Excellence NCE 20 hours/month	4,650,000 (2%) 4,650,000 (2%) 4,650,000 (2%) 4,650,000 (2%) 4,650,000 (2%)	2010 2011 2012 2013 2014
C. Clarke	Information Retrieval, Search, Text Mining and Related Applications NSERC Discovery Grants - Individual 40 hours/month	34,000 34,000 34,000 34,000 34,000	2010 2011 2012 2013 2014
U. Hengartner, C. Clarke, G. Cormack, M. Terry	Privacy and personalization in mobile social media Google Focus award 40 hours/month	250,000 (25%) 250,000 (25%) 250,000 (25%)	2011 2012 2013

PROTECTED WHEN COMPLETED

Personal identification no. (PIN)	Family name
Valid 100252	Clarke

RESEARCH SUPPORT

Family name and initial(s) of applicant	Title of proposal, funding source and program, and time commitment (hours/month)	Amount per year	Years of tenure (yyyy)
List all sources of support **(including NSERC grants and university start-up funds)** held as an applicant or a co-applicant: a) support held in the past four (4) years but now completed; b) support currently held, and c) support applied for. For group grants, indicate the percentage of the funding directly applicable to your research. Use additional pages as required.			
b) Support currently held			
C. Clarke	Supporting Complex Search Tasks Through Suggestion & Serendipity (part of a larger ORF grant on Multiplatform Digital Media Enabling Technologies, T. Ozsu, PI) Ontario Research Fund ORF Grant 25 hours/month	50,000(100%) 50,000(100%) 50,000(100%) 50,000(100%)	2011 2012 2013 2014

Highly Qualified Personnel (HQP)

Provide personal data about the HQP that you currently, or over the past six years, have supervised or co-supervised.

Personal identification no. (PIN)	Family name
Valid 100252	Clarke

Name	Type of HQP Training and Status	Years Supervised or Co-supervised	Title of Project or Thesis	Present Position
Dean-Hall, Adriel	Master's (In Progress)	Supervised 2012 -	contextual suggestion (topic)	degree in progress
Aboulnaga, Younos	Master's (In Progress)	Supervised 2011 -	search in social media (topic)	degree in progress
Harvey, Sarah	Doctoral (In Progress)	Co-supervised 2011 -	privacy in social media (topic)	degree in progress
Raveendran, Gobi	Master's (In Progress)	Supervised 2011 -	summarization of news comments (topic)	degree in progress
Tan, Luchen	Doctoral (In Progress)	2011 -	summarization of social media (topic)	degree in progress
Ashkan, Azin	Doctoral (In Progress)	Supervised 2007 -	sponsored search (topic)	degree in progress
Whissell, John	Postdoctoral (In Progress)	Supervised 2012 - 2013	clustering for social media	current postdoc
(Name withheld)	Master's (Completed)	Co-supervised 2012 - 2012	summarization	doctoral student
(Name withheld)	Undergraduate (Completed)	Supervised 2012 - 2012	mobile social media	unknown
(Name withheld)	Undergraduate (Completed)	Supervised 2011 - 2012	mobile social media	unknown
(Name withheld)	Postdoctoral (Completed)	Supervised 2010 - 2012	news and social media	unknown
Akinyemi, John	Doctoral (Completed)	Supervised 2008 - 2012	Similarity and Diversity in Information Retrieval	Self employed
Kolla, Maheedhar	Doctoral (Completed)	Co-supervised 2006 - 2012	Novety and Diversity in Information Retrieval Evaluation	IT industry, India
Whissel, John	Doctoral (Completed)	Supervised 2006 - 2012	Evaluating Clusterings by Estimating Clarity	Postdoc, Waterloo
(Name withheld)	Undergraduate (Completed)	Supervised 2011 - 2011	mobile social media	unknown
(Name withheld)	Undergraduate (Completed)	Supervised 2011 - 2011	summarization of social media	unknown
Nikkhoo, Hani	Master's (Completed)	Supervised 2009 - 2011	The Impact of Near-Duplicate Documents on IR Evaluation	Microsoft
(Name withheld)	Undergraduate (Completed)	Supervised 2010 - 2010	focused retrieval	unknown
Kim, Yubin	Undergraduate (Completed)	Supervised 2010 - 2010	summarization of social media	Doctoal student, CMU
Itakura, Kelly	Doctoral (Completed)	Supervised 2006 - 2010	Focused Retrieval	National Institute of Informatics, Tokyo

Highly Qualified Personnel (HQP)

Provide personal data about the HQP that you currently, or over the past six years, have supervised or co-supervised.

Personal identification no. (PIN)	Family name
Valid 100252	Clarke

Name	Type of HQP Training and Status	Years Supervised or Co-supervised	Title of Project or Thesis	Present Position
(Name withheld)	Undergraduate (Completed)	Supervised 2007 - 2007	focused search (topic)	unknown
(Name withheld)	Undergraduate (Completed)	Supervised 2007 - 2007	speech retrieval (topic)	unknown
Yeung, Peter	Master's (Completed)	Supervised 2005 - 2007	Weighting Document Genre in Enterprise Search	Software Industry, Toronto
Buettcher, Stefan	Doctoral (Completed)	Supervised 2004 - 2007	Multi-user File System Search	Senior Software Engineer, Google
Mostinski, Dimitri	Master's (Completed)	Co-supervised 2004 - 2007	Dynamic Factored Particle Filtering for Context-Specific...	Software industry, United States

Most Significant Contributions to Research (past six years)

i) *Effectiveness measures based on time-biased gain* (contributions C1, C2, and S1) — Time-biased gain provides a unifying framework for information retrieval evaluation, generalizing many traditional effectiveness measures while accommodating aspects of user behavior not captured by these measures. By using time as a basis for calibration against actual user data, time-biased gain can reflect aspects of the search process that directly impact user experience, including document length, near-duplicate documents, and summaries. Unlike traditional measures, which must be arbitrarily normalized for averaging purposes, time-biased gain is reported in meaningful units, such as the total number of relevant documents seen by the user. Contribution C1 was recognized with the best paper award at SIGIR, the main conference in this area.

ii) *User behavior in sponsored search* (contributions J3, C7, C8, C9, S2, S9, and S12) — Interpreting user actions to better understand their needs provides an important tool for improving information access services. In the context of organic Web search, considerable effort has been made to model user behavior and infer query intent, with the goal of improving the overall user experience. Much less work has been done in the area of sponsored search. This work develops and evaluates novel models and methods required to interpret user behavior and understand query intent in this new context.

iii) *Novelty and diversity* (contributions J1, C4, C5, C10, C11, S5, and S6) — In generating a result list, a search engine must balance the requirements of its user population, reflecting the diversity of possible needs underlying a query and supplying novel information as users traverse the result list. This work develops evaluation methods for measuring the success of a system at achieving its goal of novelty and diversity.

iv) *Evaluating clusterings by estimating clarity* (contributions J4, C3, C6, and C8) — This work develops, analyzes, and tests a new internal clustering quality measure called informativeness, which uses classification accuracy as a proxy for human assessment.

v) *Dynamic index update for search engines* (contributions J7 and C12)— Enterprise and desktop search systems must efficiently cope with updates, responding quickly when documents are added and removed. This work develops novel methods for dynamic index maintenance, including hybrid methods combining in place and immediate merge techniques.

Research Contributions (past six years)

The names of student authors appear in boldface. Where appropriate, funding sources are listed at the end of entries using the following codes: N = NSERC, I = Industry, X = Other. Parentheses indicate the primary source.

Book

B1. Stefan Büttcher, Charles L. A. Clarke, and Gordon V. Cormack. *Information Retrieval: Implementing and Evaluating Search Engines*, MIT Press, 2010.

Journal Articles and Book Chapters

J1. **Peter B. Golbus**, Javed A. Aslam, and Charles L. A. Clarke. Increasing Evaluation Sensitivity to Diversity. *Information Retrieval*, to appear, 2013. (X)

J2. **John A. Akinyemi** and Charles L.A. Clarke. Fast and Effective Soft Links. *Software Practice and Experience*, published online pending inclusion in an issue, 2013. (I)N

J3. **Azin Ashkan** and Charles L A. Clarke. Impact of Query Intent and Search Context on Clickthrough Behavior in Sponsored Search. *Knowledge and Information Systems*, **34**(2):425-452, 2013. (I)N

J4. **John S. Whissell** and Charles L. A. Clarke. Improving Document Clustering using Okapi BM25 Feature Weighting. *Information Retrieval*, **14**(5):466-487, 2011. (I)N

J5. Gordon V. Cormack, Mark D. Smucker, Charles L. A. Clarke. Efficient and Effective Spam Filtering and Re-Ranking for Large Web Datasets. *Information Retrieval*, **14**(5):441-465, 2011. (N)

J6. Charles L. A. Clarke, Gordon V. Cormack, **Thomas R. Lynam**, Chris Buckley and Donna Harman. Swapping Documents and Terms. *Information Retrieval*, **12**(6):680-694, December 2009. (I)

J7. **Stefan Büttcher** and Charles L. A. Clarke. Hybrid Index Maintenance for Contiguous Inverted Lists. *Information Retrieval*, **11**(3):175-207, June 2008. (I)N

Refereed Full Conference Papers

C1. Mark Smucker and Charles L. A. Clarke. Modeling User Variance in Time-Biased Gain. In *6th Symposium on Human-Computer Interaction and Information Retrieval*, Cambridge, Massachusetts, October 2012. (N)XI

C2. Mark D. Smucker and Charles L. A. Clarke. Time-Based Calibration of Effectiveness Measures. In *35th International ACM SIGIR Conference on Research and Development in Information Retrieval*, pages 95-104, August, 2012. **Best paper award.** (N)XI

C3. **John S. Whissell** and Charles L. A. Clarke. Clustering for Semi-Supervised Spam Filtering. In *8th Annual Collaboration, Electronic Messaging, Anti-Abuse and Spam Conference*, pages 125-134, Perth, Australia, September 2011. (I)N

C4. Charles L. A. Clarke, Nick Craswell, Ian Soboroff, and **Azin Ashkan**. A Comparative Analysis of Cascade Measures for Novelty and Diversity. In *4th ACM International Conference on Web Search and Data Mining* pages 75-84, February 2011. (N)I

C5. **Azin Ashkan** and Charles L. A. Clarke. On the Informativeness of Cascade and Intent-Aware Effectiveness Measures. In *20th International World Wide Web Conference*, pages 407-416, Hyderabad, India, March 2011. (I)N

C6. **Benjamin Lafreniere**, Andrea Bunt, **John S. Whissell**, Charles L. A. Clarke, and Michael Terry. Characterizing Large-Scale Use of a Direct Manipulation Application in the Wild, In *36th Graphics Interface Conference*, pages 11-18, May 2010. (X)IN

C7. **Azin Ashkan** and Charles L. A. Clarke. Characterizing Commercial Intent. *18th ACM Conference on Information and Knowledge Management*, November 2009. (I)N

C8. **John Whissell**, Charles L. A. Clarke, and **Azin Ashkan**. Clustering Web Queries. *18th ACM Conference on Information and Knowledge Management*, 2009. (I)N

C9. **Azin Ashkan**, Charles Clarke, Eugene Agichtein, and **Qi Guo**. Estimating Ad Clickthrough Rate Through Query Intent Analysis. *IEEE/WIC/ACM International Conference on Web Intelligence*, 2009. (I)

C10. Charles L. A. Clarke, **Maheedhar Kolla**, and Olga Vechtomova. An Effectiveness Measure for Ambiguous and Underspecified Queries. *2nd International Conference on the Theory of Information Retrieval*, 2009. (I)N

C11. Charles L. A. Clarke, **Maheedhar Kolla**, Gordon V. Cormack, Olga Vechtomova, **Azin Ashkan**, Stefan Büttcher and **Ian MacKinnon**. Novelty and Diversity in Information Retrieval Evaluation. *31st Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, page 659-666, 2008. (N)X

C12. **Stefan Büttcher** and Charles L. A. Clarke. Index compression is good, especially for random access. *16th ACM Conference on Information and Knowledge Management*, pages 761-770, 2007. (I)N

C13. Charles L. A. Clarke, Eugene Agichtein, Susan Dumais and Ryen W. White. The Influence of Caption Features on Clickthrough Patterns in Web Search. *30th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, page 135-142, 2007. (I)

C14. **Stefan Büttcher**, Charles L. A. Clarke, **Peter C. K. Yeung** and Ian Soboroff. Reliable Information Retrieval Evaluation with Incomplete and Biased Judgements. *30th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, pages 63-70, 2007. (I)NX

Refereed Short Papers and Posters

S1. Mark D. Smucker and Charles L. A. Clarke. Stochastic Simulation of Time-Biased Gain. Short paper in *21st ACM International Conference on Information and Knowledge Management*, pages 2040-2044, October, 2012. (N)IX

S2. **Azin Ashkan** and Charles L. A. Clarke. Modeling Browsing Behavior for Click Analysis in Sponsored Search. Short paper in *21st ACM International Conference on Information and Knowledge Management*, pages 2015-2019, October, 2012. (I)NX

S3. **Gobaan Raveendran** and Charles L. A. Clarke. Lightweight Contrastive Summarization for News Comment Mining. Poster paper in *35th International ACM SIGIR Conference on Research and Development in Information Retrieval*, pages 1103-1104, Portland, August, 2012. (X)IN

S4. **Kelly Y. Itakura**, Charles L. A. Clarke, Shlomo Geva, Andrew Trotman, and **Wei Chi Huang**. Topical and Structural Linkage in Wikipedia. Short paper in *33rd European Conference on Information Retrieval*, pages 460-465, 2011. (I)N

S5. **John A. Akinyemi** and Charles L. A. Clarke. Do Subtopic Judgments Reflect Diversity? Poster paper presented at *3rd International Conference on the Theory of Information Retrieval*, pages 309-312, 2011. (I)N

S6. **John Akinlabi Akinyemi**, Charles L. A. Clarke and Maheedhar Kolla. Towards a Collection-Based Results Diversification. Short paper presented at *9th RIAO Conference*, pages 202-205, Paris, April 2010. (I)N

S7. **Kelly Y. Itakura** and Charles L. A. Clarke. A Framework for BM25F-based XML Retrieval. Poster paper in *33rd Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, pages 843-844, Geneva, July 2010. (I)N

S8. **Qi Guo**, Eugene Agichtein, Charles Clarke, and **Azin Ashkan**. In the Mood to Click? Inferring Searcher Receptiveness to Advertising via Modeling Contextualized Interactions. Short paper in *IEEE/WIC/ACM International Conference on Web Intelligence*, pages 319-324, Milan, September 2009. (I)N

S9. **Azin Ashkan** and Charles Clarke. Term-Based Commercial Intent Analysis. Poster paper in *32nd Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, pages 800-801, Boston, July, 2009. (I)N

S10. **Kelly Itakura** and Charles Clarke. Using Dynamic Markov Compression to Detect Vandalism in the Wikipedia. Poster paper in *32nd Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, pages 822-823, Boston, July, 2009. (I)N

S11. Gordon Cormack, Stefan Büttcher and Charles Clarke. Reciprocal Rank Fusion Outperforms Condorcet and Individual Rank Learning Methods. Poster paper in *32nd Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, pages 758-759, Boston, July, 2009. (I)N

S12. **Azin Ashkan**, Charles L. A. Clarke, Eugene Agichtein, and **Qi Guo**. Classifying and Characterizing Query Intent. Short paper in *31st European Conference on Information Retrieval*, pages 578-586, Toulouse, France, April, 2009. (I)N

S13. Ryen W. White, Charles L. A. Clarke and Silviu Cucerzan. Comparing Query Logs and Pseudo-Relevance Feedback for Web-Search Query Refinement, Poster paper in *30th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, pages 831-832, Amsterdam, 2007. (I)

S14. **Peter C. K. Yeung**, Charles L. A. Clarke and **Stefan Büttcher**. Improving Retrieval Accuracy by Weighting Document Types with Clickthrough Data. Poster paper in *30th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, pages 759-760, Amsterdam, 2007. (I)N

S15. **Peter C.K. Yeung** and Luanne Freund and Charles L.A. Clarke. X-Site: A Workplace Search Tool for Software Engineers. Demonstration abstract in *30th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval*, page 900, Amsterdam, 2007. (I)N

S16. **Peter C. K. Yeung**, **Stefan Büttcher**, Charles L. A. Clarke and **Maheedhar Kolla**. A Bayesian Approach for Learning Document Type Relevance. In *29th European Conference on Information Retrieval*, pages 753-756, Rome, April 2007. (I)N

Other Evidence of Impact and Contributions (past six years)

- Co-editor-in-chief, *Information Retrieval*
- Member of the editorial board:
  Springer Informational Retrieval Series *Foundations and Trends in Information Retrieval*
- Steering committee, *Conference on Information and Knowledge Management*
- Program co-chair, *ACM SIGIR Conference*, 2007, 2014
- Web Track Coordinator, *Text REtrieval Conference*, 2009-2013
- Contextual Suggestion Coordinator, *Text REtrieval Conference*, 2012-2013
- Meta-reviewer/Area coordinator:
  ACM SIGIR, 2009, 2010, 2011, 2012, 2013
  ACM WSDM, 2009, 2012
  WWW Conference, 2012
- Frequent PC member for:
  ACM SIGIR, *WWW*, *SPIRE*, *ACM CIKM*, *ECIR*, and other conferences
- Workshop organizer at SIGIR, WSDM, and ECIR
- Reviewer for many journals, including:
  ACM Transactions on Information Systems
  IEEE Transactions on Knowledge and Data Engineering
  Information Processing and Management
  Journal of the American Society for Infomation Science and Technology
- Grant reviewer for NSERC, NSF, and other agencies
- Ph.D. external examiner at Toronto, York, Glasgow, Melbourne, and elsewhere.

Contributions to the Training of Highly Qualified Personnel

I currently supervise or co-supervise three doctoral students and three master's degree students. In the last six years, four master's degree students and five doctoral students have completed their degrees under my supervision or co-supervision. Most of these students have published their thesis work in conferences and journals, and have gone to positions in academia or in the software industry, either in Canada or elswhere.

My doctoral student, Stefan Büttcher, who graduated in 2007, received the Faculty of Mathematics Award for Outstanding Achievement in Graduate Studies. Dr. Büttcher is now a Senior Engineer at Google, working on search quality and site reliability.

Natural Sciences and Engineering Research Council of Canada | Conseil de recherches en sciences naturelles et en génie du Canada

SEND ONE ORIGINAL ONLY DO NOT PHOTOCOPY

APPENDIX A
Personal Data
(Form 100)

Complete this appendix (i) if you are an applicant or co-applicant applying for the first time; (ii) if you need to update information submitted with a previous application; or (iii) if you do not hold an appointment at a Canadian postsecondary institution. For updates, include only the revised information in addition to the date, your name and your PIN.

This information will be used by NSERC primarily to contact applicants and award holders. It may also be used to identify prospective reviewers and committee members, and to generate statistics. It will not be seen or used in the adjudication process.

Date: 2013/02/28

Family name	Given name	Initial(s) of all given names	Personal identification no. (PIN)
Clarke	Charles	CLA	**Valid** 100252

Position and complete mailing address if your primary place of employment is not a Canadian postsecondary institution or if your current mailing address is temporary

200 University Avenue West

Waterloo ON N2L3G1
CANADA

If address is temporary, indicate:

Starting date

Leaving date

Telephone number	Facsimile number	E-mail address
(519) 8884567 32184	(519) 8851208	claclark@plg.uwaterloo.ca

Telephone number (alternate)

Give an alternate telephone number only if you can be reached at that number during business hours.

Gender (completion optional): [X] Male [ ] Female

LANGUAGE CAPABILITY

English	Read [X]	Write [X]	Speak [X]
French	Read [ ]	Write [ ]	Speak [ ]

I wish to receive my correspondence: in English [X] in French [ ]

AREA(S) OF EXPERTISE

Provide a maximum of 10 key words that describe your area(s) of expertise. Use commas to separate them. If you have expertise with particular instruments and techniques, specify which one(s).

information storage and retrieval, web search, question answering, XML, data-intensive computing, software tools, program analysis, web data mining, text data mining, implicit user feedback

Research subject code(s)

Primary: 2711

Secondary: 2705

Appendix D (Form 100)
Consent to Provide Limited Personal Information About Highly Qualified Personnel (HQP) to NSERC

NSERC applicants are required to describe their contributions to the training or supervision of highly qualified personnel (HQP) by providing certain details about the individuals they have trained or supervised during the six years prior to their current application. HQP information must be entered on the Personal Data Form (Form 100). This information includes the trainee's name, type of HQP training (e.g., undergraduate, master's, technical etc.) and status (completed, in-progress, incomplete), years supervised or co-supervised, title of the project or thesis, and the individual's present position.

Based on the federal *Privacy Act* rules governing the collection of personal information, applicants are asked to obtain consent from the individuals they have supervised before providing personal data about them to NSERC. In seeking this consent, the NSERC applicant must inform these individuals what data will be supplied, and assure them that it will only be used by NSERC for the purpose of assessing the applicant's contribution to HQP training. To reduce seeking consent for multiple applications, applicants will only need to seek consent one time for a six-year period. If the trainee provides consent by e-mail, the response must include confirmation that they have read and agree to the text of the consent form.

When consent cannot be obtained, applicants are asked to not provide names, or other combinations of data, that would identify those supervised. However, they may still provide the type of HQP training and status, years supervised or co-supervised, a general description of the project or thesis, and a general indication of the individual's present position if known.

An example of entering HQP information on Form 100 (with and without consent):

Name	Type of HQP Training and Status	Years Supervised or Co-supervised	Title of Project or Thesis	Present Position
Consent Received from Marie Roy				
Roy, Marie	Undergraduate (Completed)	Supervised 1994 - 1997	Isotope geochemistry in petroleum engineering	V-P (Research), Earth Analytics Inc., Calgary, Alberta
Consent Not Obtained from Marie Roy				
(name withheld)	Undergraduate (Completed)	Supervised 1994 - 1997	Isotope geochemistry	research executive in petroleum industry - western Canada

Consent Form

Name of Trainee	
Applicant Information	
Name Clarke, Charles CLA	
Department Computer Science, David R. Cheriton School (	Postsecondary Institution Waterloo

I hereby allow the above-named applicant to include limited personal data about me in grant applications submitted for consideration to NSERC for the next six years. This limited data will only include my name, type of HQP training and status, years supervised or co-supervised, title of the project or thesis and, to the best of the applicant's knowledge, my position title and company or organization at the time the application is submitted. I understand that NSERC will protect this data in accordance with the *Privacy Act*, and that it will only be used in processes that assess the applicant's contributions to the training of highly qualified personnel (HQP), including confidential peer review.

Trainee's signature _____ Date _____

Note: This form must be retained by the applicant and made available to NSERC upon request.