**Statement of Experience**

Application for the Designation of

**Certified Catastrophe Risk Management Professional (CCRMP) for Model Developers and Providers**

(In Lieu of Exams)

**Technical Experienced Industry Professional (EIP)**

|  |  |
| --- | --- |
|  | Applicant Information |
| Name: |  |
| Phone:  |  |
| E-Mail: |  |
| Date Submitted: |  |

This application is intended to be used by candidates seeking the CCRMP designation through the technical EIP pathway. The technical EIP pathway is intended for individuals involved in the development and delivery of catastrophe models to the user community. The candidate’s responsibilities and expertise should fall within one or more of the following categories, and they are expected to demonstrate mastery of skills in line with the requirements of the application:

* Model Research & Development
* Product Management
* Consultants and Client Service Representative
* Senior Sales and Account Management Representatives
* Senior Marketing Staff
* Senior Software Development
* Senior IT and Technical Staff

As a guideline, but not a requirement, we would expect applicants to have been working for at least 8 years in one or more of the above roles related to the development and delivery of catastrophe models. Please see Appendix 1 for further guidance on these applicant roles.

Contents

[Section A – Statement of Professional Qualifications 3](#_Toc86933213)

[Section B – General Skill Requirements – 3 sections 4](#_Toc86933214)

[B-1 – Property & Catastrophe Insurance Fundamentals 4](#_Toc86933215)

[B-2 –Catastrophe Model Usage 5](#_Toc86933216)

[B-3 – Catastrophe Model Results Usage 7](#_Toc86933217)

[Section C – Advanced Skill Requirements for Catastrophe Model Development – 4 sections 8](#_Toc86933218)

[C-1 – Model Research and Development including Hazard, Vulnerability, Financial Model and / or Industry Exposure Components 9](#_Toc86933219)

[C-2 – Model or Software Product Management, Software Development and Technical/Infrastructure Platform Deployment 10](#_Toc86933220)

[C-3 – Client Service and Consulting 11](#_Toc86933221)

[C-4 – Market and Client Engagement in Sales, Account Management or Marketing 12](#_Toc86933222)

[Section D – References 13](#_Toc86933223)

[Section E – Current CV (Please paste in your current CV) 14](#_Toc86933224)

[Appendix 1 – Target Applicant Experience Description 15](#_Toc86933225)

**CCRMP Technical EIP Application – Section A**

## Section A – Statement of Professional Qualifications

Each candidate shall provide a brief narrative summarizing their qualifications for the certification including a statement of why they believe they qualify for the CCRMP designation. Applicants should summarize their experience in different model development and delivery job roles as outlined herein. Please characterize the level of expertise you possess in the various roles you have held, as well as the level of responsibility or oversight you held in these capacities. As a guideline we would expect applicants to have been working for at least 8 years in one or more of the above roles related to the development and delivery of catastrophe models, and have significant ownership or oversight of major deliverables such as models, products or a broad range of customer engagements.

**CCRMP Technical EIP Application – Section B-1**

## Section B – General Skill Requirements – 3 sections

*Subject Matter Categories required for exams pertaining to the designation of* Certified Specialist in Catastrophe Risk (CSCR)*.*

### B-1 – Property & Catastrophe Insurance Fundamentals

* + Passing of relevant exams or
	+ Demonstration of understanding plus application of insurance and/or reinsurance

**Industry Designations**

**Check all that apply:**

CSCR\*☐. CPCU ☐ ARe ☐ FCAS/ACAS ☐ Other ☐

*\*If you already have your CSCR designation, please go to Section C. There is no need to complete Section B.*

**Work Experience: Specific Catastrophe Modeling Roles**

|  |  |  |  |
| --- | --- | --- | --- |
| **Company** | **Title** | **Role** | **Year (s)** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

List the relevant experience you have for understanding insurance and/or reinsurance.

**CCRMP Technical EIP Application – Section B-2**

### B-2 –Catastrophe Model Usage

* + Application of multiple model methodologies terms
	+ Demonstrate understanding and/or application of hazard impact of various catastrophe perils and/or global territories, structure vulnerabilities and different primary insurance coverages

Complete the tables below for the Catastrophe Models you have experience with including vendors, hands-on modeling, use of output files and custom analytics with those vendor models. Also check the territories, perils and model applications of which you have experience.

**Models and analytics you have used. Check all that apply:**

|  |  |  |  |
| --- | --- | --- | --- |
| Vendors | Hands-onModeling | Output File Analytics | Custom Analytics |
| AIR |[ ] [ ] [ ]
| ARA |[ ] [ ] [ ]
| CoreLogic |[ ] [ ] [ ]
| Impact Forecasting |[ ] [ ] [ ]
| KatRisk |[ ] [ ] [ ]
| KCC |[ ] [ ] [ ]
| RMS |[ ] [ ] [ ]
| Other: |[ ] [ ] [ ]

**Territories, perils and model applications. Check all that apply:**

|  |  |  |
| --- | --- | --- |
| Territories | Perils | Model Application |
| [ ]  US / North America | [ ]  Earthquake / FF | [ ]  Underwriting | [ ]  Portfolio Optimization |
| [ ]  Europe | [ ]  Hurricane / Tropical Cyclone | [ ]  Reinsurance Design | [ ]  Pricing (Primary) |
| [ ]  Japan | [ ]  Severe storm, tornado, hail | [ ]  Accumulation Management | [ ]  Pricing (Reinsurance/Retro) |
| [ ]  Asia  | [ ]  Inland Flood | [ ]  Event Response | [ ]  Geo Sciences |
| [ ]  Latin & South America  | ☐ Wild Fire | [ ]  Claims Management | [ ]  Other:\_\_\_\_\_\_\_\_\_\_\_ |
| [ ]  Other:\_\_\_\_\_\_\_\_\_\_\_ | ☐ Terrorism |  |  |

Please provide at least two examples demonstrating an understanding of hazard impact, structure vulnerabilities, and/or different primary insurance coverage terms (you may utilize another page for your examples).

**CCRMP Technical EIP Application – Section B-3**

### B-3 – Catastrophe Model Results Usage

Demonstrate competency with respect to:

* Data handling, including knowledge of schemas
* Exposure data cleaning and validation
* Accumulation management methods
* Use of model output from various modeling methodologies for varied applications (e.g., pricing, risk selection, capacity management)

Please provide at least one example demonstrating your understanding and/or experience for each of the areas listed above.

**CCRMP Technical EIP Application – Section C**

## Section C – Advanced Skill Requirements for Catastrophe Model Development – 4 sections

Below are the subject matter categories required for the designation of *Certified Catastrophe Risk Management Professional (CCRMP)*for individuals involved in the development and delivery of catastrophe models to the user community (Technical Experience Industry Professional pathway). Candidates must demonstrate **mastery** in at least one category, and a well-rounded working knowledge of and experience collaborating with colleagues in the other categories. Please provide written statements for all sections, including:

* For all categories where you have held a direct role and believe you possess mastery, please provide a detailed description of your experience and knowledge on the topic to demonstrate that mastery. This should include written descriptions of **experience, examples of work product(s), level of ownership or oversight for work product(s), and professional references** who can verify competencies and / or prior supervision.
* For all categories where you have not held a direct role and do not believe you possess mastery, please describe how you interacted with your colleagues working in these areas and how your work fed into or built off of work done in these areas. To the best of your ability, demonstrate a well-rounded working knowledge of these categories and articulate your understanding of their importance in delivering catastrophe models and software to the user community.

Narratives citing examples of experience, competencies and expertise should be at least 1 page but no more than 2 pages in length for category(s) where you are attempting to demonstrate mastery, and at least ½ page but no more than 1 page in length for categories where you are not attempting to demonstrate mastery. The narrative may include references to confidential work but should not disclose any confidential information.

**CCRMP Technical EIP Application – Section C-1**

### C-1 – Model Research and Development including Hazard, Vulnerability, Financial Model and/or Industry Exposure Components

Please provide narrative and examples demonstrating your experience and understanding of the model research and development process.

Mastery in model research and development requires direct involvement and deep technical expertise in the model development process, likely in one or more of the following areas: hazard simulation; vulnerability estimation; financial modeling; and / or industry exposure development. It must also include oversight or very active involvement in the final overall model launch, go-to-market, and market acceptance efforts. Finally, it is also likely to include active participation in live / real-time event response efforts such as the development of event scenarios, loss estimates, or other market-facing resources or communications in advance of or in the immediate aftermath of events that occur.

If you have direct experience and believe you possess mastery in the model development category, please check the box below, and seek to demonstrate your mastery via descriptions of **experience, examples of work product(s), level of ownership or oversight for work product(s), and professional references** who can verify competencies and / or prior supervision. If you do not have direct experience and do not possess mastery in the model development category, please describe how you interacted with your colleagues working in these areas, how your work fed into or built off of work done in these areas, and demonstrate your understanding of the importance of model development in delivering catastrophe models and software to the user community.

|  |
| --- |
| Area of Mastery? |[ ]

**Indicative Title/Level: Director, AVP or higher**

**CCRMP Technical EIP Application – Section C-2**

### C-2 – Model or Software Product Management, Software Development and Technical/Infrastructure Platform Deployment

Please provide narrative and examples demonstrating your experience and understanding of the model or software product management, software development or platform deployment processes.

Mastery in model or software product management, software development or platform deployment requires direct involvement and deep technical expertise in the model and/or software development and deployment process, likely in one or more of the following areas: model or software product management; software development; and / or platform deployment via technical infrastructure. It must include oversight or very active involvement in the product design, development, release and market acceptance efforts.

If you have direct experience and believe you possess mastery in the model platform development and deployment category, please check the box below, and seek to demonstrate your mastery via descriptions of **experience, examples of work product(s), level of ownership or oversight for work product(s), and professional references** who can verify competencies and/or prior supervision. If you do not have direct experience and do not possess mastery in the model product management, software development and/or platform development category, please describe how you interacted with your colleagues working in these areas, how your work fed into or built off of work done in these areas, and demonstrate your understanding of the importance of model product management, software development and/or platform development in delivering catastrophe models and software to the user community.

|  |
| --- |
| Area of Mastery? |[ ]

**Indicative Title/Level: Director, AVP or higher for Product Managers; Executive, VP or higher for software development and platform deployment roles**

**CCRMP Technical EIP Application – Section C-3**

### C-3 – Client Service and Consulting

Please provide narrative and examples demonstrating your experience and understanding of Client Support and Consulting for the user community.

Mastery in client service and consulting requires direct involvement and deep technical expertise in the usage of models and modeling platforms by the clients or on behalf of clients to fulfill business requirements. It likely involves extensive experience in one of more of the following areas: training; workflow design; issue identification, investigation, and resolution; interpretation and application of model results; and / or completing modeling projects on behalf of clients. It must include management or extensive oversight of teams supporting clients or executing projects for a large number of clients across a wide swath of the user community.

If you have direct experience and believe you possess mastery in the client service and consulting category, please check the box below, and seek to demonstrate your mastery via descriptions of **experience, examples of work product(s), level of ownership or oversight for work product(s), and professional references** who can verify competencies and / or prior supervision. If you do not have direct experience and do not possess mastery in the client service and consulting category, please describe how you interacted with your colleagues working in these areas, how your work fed into or built off work done in these areas, and demonstrate your understanding of the importance of client service and consulting in delivering catastrophe models and software to the user community.

|  |
| --- |
| Area of Mastery? |[ ]

**Indicative Title/Level: Director, AVP or higher**

**CCRMP Technical EIP Application – Section C-4**

### C-4 – Market and Client Engagement in Sales, Account Management or Marketing

Please provide narrative and examples demonstrating your experience and understanding of Marketing and Client Engagement for the user community.

Mastery in market and client engagement requires a blend of technical expertise in the usage of models, practical expertise in data workflow and third-party data usage, and competence in understanding business requirements and risk management priorities in the re/insurance industry. It likely involves extensive experience in one of more of the following areas: sales and account management across a broad range of clients, based on the balance of technical and business concepts as mentioned above; the development and execution of marketing strategies based on the balance of technical and business concepts as mentioned above. It must include management or extensive oversight of teams performing sales, account management or marketing activities for a large number of clients across a wide swath of the user community.

If you have direct experience and believe you possess mastery in the market and client engagement category, please check the box below, and seek to demonstrate it via descriptions of **experience, examples of work product(s), level of ownership or oversight for work products, and professional references** who can verify competencies and / or prior supervision. If you do not have direct experience and do not possess mastery in the market and client engagement category, please describe how you interacted with your colleagues working in these areas, how your work fed into or built off of work done in these areas, and demonstrate your understanding of the importance of market and client engagement in delivering catastrophe models and software to the user community.

|  |
| --- |
| Area of Mastery? |[ ]

**Indicative Title/Level: Executive, VP or higher**

**CCRMP Technical EIP Application – Section D**

## Section D – References

Please provide at least three references in the following table. Please include the section(s) in which the reference will be confirming:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| No | Name | Company | E-mail | Phone(s) | Section |
| 1 |  |  |  |  |  |
| 2 |  |  |  |  |  |
| 3 |  |  |  |  |  |

**CCRMP Technical EIP Application – Section E**

## Section E – Current CV (Please paste in your current CV)

**CCRMP Technical EIP Application – Appendix 1**

## Appendix 1 – Target Applicant Experience Description

This section provides additional guidance on the expected experience levels of target applicants for the technical EIP for the CCRMP qualification.

|  |  |  |
| --- | --- | --- |
| Role  | Indicative Title/Level and Expected Experience | Experience Level Descriptions |
| Model Research & Development | Director, AVP or higher;Experience Time Guideline: 8+ years | * Possess a very well-rounded knowledge of the full modeling space
* True model developers/builders, e.g., in the R&D group, with extensive experience in at least one area of specialization, e.g., meteorology, wind engineering, in addition to overseeing or very actively participating in the completion and delivery of complete model(s) to the market
* Must understand the workings of the model as a complete system, and have experience with overall model validation, model release and model promotion to the market
 |
| Product Managers | Director, AVP or higher;Experience Time Guideline: 8+ years | * Extensive experience overseeing the design and development of major modeling platforms based on a thorough knowledge of market use cases, needs, and workflows
* Experience must extend to the oversight of overall products, in addition to individual product features or subcomponents
 |
| Consultants andClient Service Representatives | Director, AVP or higher;Experience Time Guideline: 8+ years | * Possess a deep understanding of the models and how they are used by the market(s)
* Extensively supported clients in making optimal use of the models and model output
* Areas of extensive experience are likely to include user training, in depth client support related to model and product usage, model and product change management support, internal model and product use on behalf of clients or for internal initiatives
 |
| Senior Sales or Account Management Representative  | Executive, VP or higher;Experience Time Guideline: 10+ years | * Deep understanding and experience of models in the context of client needs, usage and how they fit into the business strategy
 |
| Senior Marketing Staff | Executive, VP or higher;Experience Time Guideline: 10+ years | * Extensive experience of working in a technical and business marketing setting, and can demonstrate understanding of modeling concepts, components, and release over an extended period
* Show high skill in translating technical messages to meaningful business messages that show a deep understanding of usage of modeling products in insurance markets
 |
| Senior Software Developer | Executive, VP or higher;Experience Time Guideline: 10+ years | * Extensive experience of working with models to integrate into software platforms and/or applications, across multiple modeling components and linkages
 |
| Senior ITTechnical Staff | Executive, VP or higher;Experience Time Guideline: 10+ years | * Extensive experience supporting technical and infrastructure projects and programs with respect to model development, roll out, installation and trouble shooting
 |
| \* Titles can vary significantly by industry, geography, company, and functional area; indicative titles are meant to provide a reference point in relation to a candidate’s level of oversight and responsibility but are not a requirement for eligibility |