

**PROFESSIONAL SERVICES AGREEMENT  
WITH TEXAS A&M UNIVERSITY- CORPUS CHRISTI  
FOR COVID 19 MODELING**

**Section 1. Parties.** This professional services agreement (“**Agreement**”) is entered into by and between the Corpus Christi-Nueces County Public Health District, (“**Health District**”), and Texas A&M University - Corpus Christi, a member of The Texas A&M University System and an agency of the State of Texas (**TAMU-CC**).

**Section 2 Term.**

(A) The Services (as defined below) shall be performed by TAMU-CC from May 15, 2020 to December 31, 2020, unless earlier terminated in accordance with Section 14 hereof.

(B) Time is of the essence for this Agreement. TAMU-CC shall perform and complete the Services in a prompt and continuous manner so as to not delay the project, in accordance with the schedule described in Exhibit A attached hereto. The TAMU-CC and Health District are aware that many factors may affect the TAMU-CC's ability to complete the Services. TAMU-CC must notify the Health District within ten business days of becoming aware of a factor that may affect the TAMU-CC's ability to complete the Services.

(C) Health District shall perform its obligations of review and approval in a prompt and continuous manner so as to not delay the project.

**Section 3. Services.** In consideration of payment to be made for services rendered, TAMU-CC agrees to provide the services identified on Exhibit A attached hereto (the “**Services**”) in accordance with the approved project schedule and budget as detailed on Exhibit A, including completing the work in the phases described therein.

**Section 4. Relationship of the Parties.**

TAMU-CC will perform all Services as an independent contractor and will furnish the Services in its own manner and method. Under no circumstances or conditions will TAMU-CC be considered an employee of the Health District for any purpose or reason. TAMU-CC may only act as an agent of the Health District.

## **Section 5. Fee/Compensation for Services.**

(A) The total amount of this Agreement shall not exceed \$217,840 (the "**Total Cost**").

(B) TAMU-CC shall invoice the Health District for fifty percent (50%) of the Total Cost upon execution of this Agreement and for the remaining fifty percent (50%) of the Total Cost on November 1, 2020.

(C) The Health Director may request the TAMU-CC to undertake additional services or tasks provided that no increase in the Total Cost is required. Services or tasks requiring an increase in the Total Cost will be mutually agreed and evidenced in writing as an amendment to this Agreement. TAMU-CC shall notify the Health District within three (3) days of notice if tasks requested require an increase in the Total Cost.

(D) Invoices submitted or supporting documentation must contain contract amounts, current invoice, previous invoice total, remaining balance, and an estimate of the proportion of the contracted services completed at the time of billing. Health District will make payments within thirty (30) days of its receipt of TAMU-CC's properly submitted invoices. Missing information may result in delay of payments.

(E) All payments due hereunder shall be paid no later than December 31, 2020, provided that all required reports, data and documents have been submitted by TAMU-CC and received, accepted and approved by Health District. Final billing shall indicate "Final Bill - no additional compensation is due to TAMU-CC." Health District shall not be deemed in default by reason of withholding compensation as provided under this Agreement.

**Section 6. Nondiscrimination.** TAMU-CC shall not discriminate nor permit discrimination against any person or group of persons, as to employment or in the performance of Services under this Agreement, on the grounds of race, religion, national origin, sex, disability, or age, or in any manner prohibited by the laws of the United States or the State of Texas. The Health District retains the right to take such action as the United States may direct to enforce this non-discrimination covenant.

**Section 7. Compliance with Laws.** TAMU-CC must comply with all applicable federal, State, and local government laws, rules, regulations, and ordinances, which may be applicable to the Services to be rendered under this Agreement.

## **Section 8. Notices.**

(A) All notices, demands, requests, or replies provided for or permitted, under this Agreement by either party must be in writing and must be delivered by one of the following methods: (1) by personal delivery; (2) by deposit with the United States Postal Service as certified mail, return receipt requested, postage prepaid; (3) by prepaid telegram; (4) by

deposit with an overnight express delivery service, for which service has been prepaid; or (5) by fax transmission.

(B) Notice deposited with the United States Postal Service in the manner described above will be deemed effective two (2) business days after deposit with the United States Postal Service. Notice by telegram or overnight express delivery service in the manner described above will be deemed effective one (1) business day after transmission to the telegraph company or overnight express carrier. Notice by fax will be deemed effective upon transmission with proof of delivery to the receiving party. All such communications must only be made to the following:

**IF TO THE HEALTH DISTRICT:**

Annette Rodriguez  
Director of Public Health  
1702 Horne Rd  
Corpus Christi, TX 78416  
(361) 826-7205 Office

**IF TO TAMU-CC:**

Ahmed Mahdy  
Vice President for Research & Innovation.  
6300 Ocean Drive, Unit 5844  
Corpus Christi, TX 78412-5844  
(361) 825-3881 Office  
(361) 825-3920 Fax

(C) Either party may change the address to which notice is sent by using a method set out above in this section. TAMU-CC must notify the Health District of an address or phone number change within 10 days after the address or number is changed.

**Section 9. Amendments.** No alterations, changes, or modifications to the terms of this Agreement nor the waiver of any provision will be valid unless made in writing and signed by all parties to this Agreement by a person authorized to sign agreements on behalf of each party.

**Section 10. Waiver.**

(A) The failure of any party to complain of any act or omission on the part of the other party, no matter how long the same may continue, will not be deemed a waiver by said party of any of its rights under this Agreement.

(B) No waiver of any covenant or condition or of the breach of any covenant or condition of this Agreement by any party at any time, express or implied, will be taken to constitute a waiver of any subsequent breach of the covenant or condition nor will justify or authorize the nonobservance on any other occasion of the same or any other covenant or condition of this Agreement.

(C) If any action by TAMU-CC requires the consent or approval of the Health District on one occasion, any consent or approval given on said occasion will not be deemed a consent or approval of the same or any other action at any other occasion.

(D) Any waiver or indulgence of TAMU-CC's default of any provision of this Agreement will not be considered an estoppel against the Health District. It is expressly understood that, if at any time TAMU-CC is in default of any of the conditions or covenants of this Agreement, the failure on the part of the Health District to promptly avail itself of any rights and remedies

which the Health District may have will not be considered a waiver on the part of the Health District, but the Health District may at any time avail itself of said rights or remedies or elect to terminate this Agreement on account of said default.

(E) The rights and remedies in this section are cumulative and are in addition to any other rights and remedies provided by law.

**Section 11. Budgetary Appropriations.** TAMU-CC understands and acknowledges that the continuation of this Agreement after the close of any fiscal year of the City of Corpus Christi or Nueces County, which fiscal year end on September 30, respectively, of each year, is subject to sufficient appropriations and budget approval providing for or covering this Agreement as an expenditure in the City of Corpus Christi's and Nueces County's budgets. Neither the City of Corpus Christi nor the Nueces County represents to TAMU-CC that said budget item will be actually adopted, the determination as to appropriations and expenses being within the sole discretion of the City of Corpus Christi's and Nueces County's governing bodies at the time of adoption of their respective budgets. If revenue funds are not appropriated by the City of Corpus Christi and Nueces County for any individual fiscal year following the execution of this Agreement, the Health District reserves the right to terminate this Agreement without penalty. The Health District may direct the TAMU-CC to suspend work pending receipt and appropriation of funds. The right to suspend work under this provision does not relieve the Health District of its obligation to make payments for Services provided up to the date of suspension.

**Section 12. Force Majeure.** No party to this Agreement will be liable for failures or delays in performance due to any cause beyond their control including, but not limited to, any failures or delays in performance caused by strikes, lock outs, fires, acts of God or the public enemy, common carrier, severe inclement weather, riots or interference by civil or military authorities. The rights and obligations of the parties will be temporarily suspended during this period to the extent performance is reasonably affected.

**Section 13. Assignment and Transfer of Agreement.** This Agreement may not be, in whole or in part, assigned or transferred, directly or indirectly, by TAMU-CC without the prior written consent of the Health District. Subject to the foregoing, this Agreement shall be binding upon the Health District and TAMU-CC and each of their respective successors and assigns.

**Section 14. Termination of Agreement.**

(A) This Agreement terminates upon the earlier of the following:

- (1) December 31, 2020;
- (2) Lack of budgetary appropriations by the City of Corpus Christi or Nueces County, as specified in Section 11; or
- (3) By mutual consent of the parties to this Agreement.

(B) In the event of a termination of this Agreement, any unpaid amounts due to TAMU-CC, prorated through the effective termination date, will be paid to TAMU-CC within thirty (30) days of the effective termination date.

**Section 15. Venue and Jurisdiction.**

(A) All actions brought to enforce compliance will be brought in Nueces County, where this Agreement was executed and will be performed.

(B) This Agreement will be governed by and construed in accordance with the laws of the State of Texas.

**Section 16. Severability.**

(A) If, for any reason, any section, paragraph, subdivision, clause, provision, phrase, or word of this Agreement or the application hereof to any person or circumstance is, to any extent, held illegal, invalid, or unenforceable under present or future law or by a final judgment of a court of competent jurisdiction, then the remainder of this Agreement, or the application of said term or provision to persons or circumstances other than those as to which it is held illegal, invalid, or unenforceable, will not be affected thereby, for it is the definite intent of the parties to this Agreement that every section, paragraph, subdivision, clause, provision, phrase, or word hereof be given full force and effect for its purpose.

(B) To the extent that any clause or provision is held illegal, invalid, or unenforceable under present or future law effective during the term of this Agreement, then the remainder of this Agreement is not affected thereby, and in lieu of each such illegal, invalid, or unenforceable clause or provision, a clause or provision, as similar in terms to such illegal, invalid, or unenforceable clause or provision as may be possible and be legal, valid, and enforceable, will be added to this Agreement automatically.

**Section 17. Entirety Clause.** This Agreement and the attached and incorporated Exhibit A constitute the entire agreement between the parties for the purposes stated. All other agreements, promises, representations, and understandings, oral or otherwise, with reference to the subject matter hereof, unless contained in this Agreement, are expressly revoked, as the parties intend to provide for a complete understanding within the provisions of this Agreement and Exhibit A of the terms, conditions, promises, and covenants relating to TAMU-CC's performance hereunder.

**(EXECUTION PAGES FOLLOW)**

**EXECUTED**, on this the \_\_\_ day of \_\_\_\_\_, 2020.

**HEALTH DISTRICT**

**ATTEST:**

\_\_\_\_\_  
Annette Rodriguez (Date)  
Health Director

\_\_\_\_\_  
Rebecca Huerta (Date)  
City Secretary

**APPROVED AS TO LEGAL FORM:**

\_\_\_\_\_  
Buck Brice  
Assistant City Attorney  
for the City Attorney

**TEXAS A&M UNIVERSITY-CORPUS CHRISTI**

Ahmed Mahdy (Date)  
Vice President for Research & Innovation

**APPROVED AS TO LEGAL FORM:**

\_\_\_\_\_  
Assistant General Counsel  
Office of General Counsel  
The Texas A&M University System

# Exhibit A

## Coastal Bend Joint COVID-19 Taskforce Operation and Funding

05/08/2020

The COVID-19 Joint Taskforce was created on April 2<sup>nd</sup> with goal of creating an interdisciplinary group of experts to assess and predict the spread of the COVID-19 in the Coastal Bend. The Taskforce is particularly focused on the present and future load on our hospital infrastructure. The Taskforce was created by TAMU-CC President Miller and Vice President Mahdy in collaboration with County Judge Canales and City of Corpus Christi leadership.

Taskforce members are from Texas A&M University-Corpus Christi, the City of Corpus Christi, Nueces County, and local hospitals. The focus of the effort are the twelve counties comprising the Coastal Bend. This geographic area was selected because Corpus Christi hospitals are the treatment facilities for severe illnesses for these counties.

The Taskforce was set up with an operational focus and organized itself to address the following goals:

- (1) Predictive modeling of the epidemic and in particular:
  - a. # Infections
  - b. # Hospitalizations
  - c. # ICU
  - d. # Ventilators
- (2) Developing and maintaining a healthcare information pipeline to:
  - a. Calibrate the predictive models
  - b. Inform local leaders of hospital resource utilization
  - c. Inform local hospital systems leaders of overall utilization
- (3) Sharing information with local leaderships and the public
  - a. Create maps and a dashboard illustrating the present status and past spread of the epidemic
  - b. Create a dashboard providing a local and state status of the epidemic
  - c. Present the Joint Taskforce assessments and predictions at press events determined by the city and county leadership
  - d. Be available to local leadership to provide feedback and information to help in their decision making

The Taskforce started quickly and selected several COVID-19 predictive models from a list of established models including models used by the White House. Each model has its own strengths and a multi-model approach allows for comparisons and internal checks. Thanks to data provided by the county and local hospitals, the healthcare information pipeline is being established while navigating a middle ground between healthcare record privacy and model needs.

Many TAMU-CC faculty, students and researchers contributed their effort and were joined by City and County experts as well as volunteer doctors from the local hospital systems. The first two months of the effort were contributed to the community by all Taskforce members without seeking contributions.

<b>Joint Taskforce Volunteers for Initial 2 Months</b>	
<b>Tasks</b>	<b>Team Members</b>

## Exhibit A

<p>Coordination</p>	<p>TAMU-CC &amp; CBI: Philippe Tissot, Chris Bird, Gina Concanon  City of Corpus Christi: Steve Viera, Dan McGinn, Keren Costanzo</p>
<p>Modeling &amp; Automation</p>	<p>TAMU-CC: Chris Bird, Lucy Huang, Jason Selwyn, Scott King, Evan Krell, Mahmoud Eldefrawy, Davey Edwards, Undergraduate Research Assistant?  City of Corpus Christi: Keren Costanzo</p>
<p>Healthcare Information Pipeline</p>	<p>TAMU-CC &amp; CBI: Greg Buck, Jason Louis, Meng Zhao  City of Corpus Christi: Keren Costanzo, Dante Gonzales  Health District: Annette Rodriguez  Coastal Bend Regional Advisory Council: Hilary Watt  Driscoll Hospital: Mike Mohat  Spohn Hospital System: Mike Simmons</p>
<p>Dashboards, Maps and Messaging</p>	<p>CBI: Bryan Gillis, Lucy Huang, Davey Edwards, Audrey Garza  TAMU-CC Library: Ed Warga  City of Corpus Christi: Kim Womack, Gabriela Morrow</p>
<p>Other Members and advisors to Joint Taskforce and Advisors</p>	<p>TAMU-CC: Leisha Martin, Qianqian Liu  Nueces County: Maggie Turner, Tiffany Anderson</p>



## Exhibit A

### Transition of Joint Taskforce to a Longer-Term Operation Mode

After the initial intense start, the Taskforce needs to evolve into a longer-term operational unit to contribute consistent assessment and predictions as long as there is the threat of potentially overwhelming our hospital infrastructure or as needed by the community leadership. The proposal below was developed based on the present operation of the taskforce while accounting for developing efficiencies and automation of some of the data processing for the models and dashboards.

Hopefully, City and County members of the Taskforce will be able to continue to contribute their time to the effort. On the University side, the joint Taskforce was in part enabled by the short-term flexibility of academic appointments or by funding from the Conrad Blucher Institute. Hospital systems doctors have volunteered their time as well. After this relatively long initial period, funding is necessary to create a longer-term operational effort. The longer-term operation of the taskforce is broken down into three tasks following an estimate of the TAMU-CC contribution to the initial task. The proposed funding mechanism for tasks 1-3, including the TAMU-CC contribution is presented later in the proposal.

Tasks	Description	Duration	Cost
<b>0</b>	Start of the Joint COVID-19 Taskforce with gathering of experts, goals, tasks, selection and running of models and regular press conferences.	April 2 – April 30	<b>\$117,053</b>
<b>1</b>	Continuation of the joint taskforce including continued automation of the operational COVID19 model	Summer May 1 – August 31	<b>\$142,912</b>
<b>2</b>	Continuation of the taskforce in operational mode with capability to tackle changes in the epidemic	Fall September 1 – December 31	<b>\$178,225</b>
<b>3</b>	A separate task focused on using cell phone apps location-based data to quantify the effectiveness of social distancing measures. There is no specific budget at present as the selection of the most effective (cost vs capability) data set is still ongoing. At present it appears that free data may be sufficient to create the relevant information for the Coastal Bend, and if so a separate task will likely not be necessary.	May 1 - December 31	Ongoing

In addition to the core tasks above other TAMU-CC faculty, researchers and students will continue to be ready to volunteer their advice and help with small tasks in addition to their full-time work assignments.

The additional tables below provide detailed budgets for the Task 1 and Task 2. The funding is requested for TAMU-CC taskforce member's time. Part of that time will be funded by TAMU-CC and the Conrad Blucher Institute's unrestricted funds. City, County and Hospital Systems taskforce members' time will be contributed by their respective institutions.

## Exhibit A

Additional in-kind support is not quantified and is mostly represented by TAMU-CC computational resources.

The proposed funding mechanism for the taskforce is the following:

- (1) TAMU-CC & CBI document their contributions
- (2) The remainder of the cost is shared by the other taskforce participants for their own contributions and by the City of Corpus Christi to fund a substantial part of the TAMU-CC effort.

Note that the Taskforce could also be expanded to include economic predictions, but these costs have not been estimated. Longer term, funding could also come from grants or other competitive funding acquired jointly by the Taskforce members. In addition to the operational focus of the Taskforce, TAMU-CC researchers will also compete for federal research funding, from NSF, NIH, or other agencies, while taking advantage of the taskforce collaborations.

# Exhibit A

## Task 1 Proposal: June 1, 2020 – August 31, 2020

**Green: Contributed by Texas A&M University-Corpus Christi & the Conrad Blucher Institute**

<b>Coordination</b>				
Philippe Tissot	TAMU-CC-CBI	10% (C/S Blucher)	\$4,296	Financial management of project
Chris Bird	TAMU-CC-LSCI	50% Summer	\$22,489	Day to day management of the task force, COVID19 scenarios & overall modeling coordination, press briefings and advising, building of scenarios matching present and potential measures with model capabilities
Davey Edwards	TAMU-CC-CBI	25%	\$12,411	Day to day management of the information pipelines, dashboard, mapping, including communication with hospitals and research into cell phone data
Steve Viera	City of Corpus Christi	(City funded)		Coordination on city side
Dan McGinn	City of Corpus Christi	(City funded)		Coordination on city side
Keren Costanzo	City of Corpus Christi	(City funded)		Coordination on city side, including working directly on healthcare information pipeline and several other tasks
Gina Concannon	TAMU-CC-CBI	5% (C/S Blucher)	\$1,554	Documents review & messaging
<b>Modeling and Automation</b>				
Chris Bird	TAMU-CC-LSCI	(Accounted for above)		Described above
Lucy Huang	TAMU-CC-CBI	41.75% summer	\$21,231	Runs the CHIME model providing alternate and more specific predictions for hospital infrastructure, additional research and review of epidemiological parameters and spread
Jason Selwyn	TAMU-CC-LSCI	PhD Student – 50% + tuition and fees (Imperial model + overall modeling) – C/S R&I Ahmed	\$11,992	Runs the Imperial College model providing short term predictions and parameters for the other models. Assists in all modeling tasks

## Exhibit A

Graduate student working with Chris (Luz)	TAMU-CC-LSCI Employee of genomic core lab (Bird)	Graduate student working (50% time 20 hrs/week x \$15/hr) for 12 weeks	\$5,459	Assistant learning and then operating the COVID19 operational model providing the main predictions for the taskforce
Undergraduate Student (Roy)	TAMU-CC-LSCI URA working with Chris	12 hrs/week -	\$2,184	Daily extraction of Unicast Data and maintenance of graphics
Scott King	TAMU-CC-CSCI	10% - automation and CS advising – C/S CLSE	\$5,975	Coordination of automation of the data pipelines, as well as new computational tasks and advising
Evan Krell	TAMU-CC-CSCI (King)	PhD Student – 50% Summer -	\$11,992	Automation of the data pipelines including general model data updates, regional and local data
Mahmoud Eldefrawy	TAMU-CC-CSCI (King)	PhD Student – 50% Summer - automation	\$11,992	Automation of the data pipelines including general model data updates, regional and local data
<b>Healthcare Information Pipeline</b>				
Keren Costanzo		(City funded)		
Greg Buck	TAMU-CC-LSCI	10% (summer)	\$4,346	Establishment of the healthcare information pipeline and advising regarding the microbiology and virus biology – review of model parameters
Meng Zhao	TAMU-CC-CONHS	10% (summer)	\$4,803	Establishment of the healthcare information pipeline and advising regarding hospitals, epidemiology and related practices – review of model parameters
Jason Louis	TAMU-CC-CBI	25%	\$5,901	Gathering of healthcare pipeline and other information (hotel, water, TxDOT,...), maintenance of historical records and point of contact with direct contact with data providers when needed
Annette Rodriguez	Nueces County	(County funded)		Provides information, advice and feedback regarding all county health issues
Mike Mohat - Advisory	Driscoll	(Funded by Hospital)		Provides information for Driscoll Hospital and guidance and feedback for hospital needs and operation

## Exhibit A

Mike Simmons - Advisory	Spohn	(Funded by Hospital)		Provides information for the Spohn Hospital system and guidance and feedback for hospital needs and operation
Hilary Watt – Advisory	CBRAC	(Funded by CBRAC)		Provides information for the Coastal Bend hospitals and guidance and feedback for hospital needs and operation
<b>Dashboards, Maps and Messaging</b>				
Bryan Gillis	TAMU-CC-CBI	50% (C/S Blucher)	\$11,919	
Davey Edwards	TAMU-CC-CBI	(Accounted for Above)		Described above
Audrey Garza (Edwards)	TAMU-CC-CBI	Hourly URA	\$4,368	Daily gathering and formatting of data for dashboards and models (CHIME)
		<b>Summer Project Total</b>	<b>\$142,913</b>	
<b>In Kind Resources</b>				
TAMU-CC Computational resources	TAMU—CC			
<b>Share of Funding</b>				
TAMU-CC			<b>\$35,736</b>	Cost shared by TAMU-CC with \$17,769 provided by the Conrad Blucher Institute, \$11,992 from R&I and \$5,975 from COSE
Health District			<b>\$107,176</b>	

## Exhibit A

### Task 2 Proposal: September 1, 2020 – December 31, 2020

Green: Contributed by Texas A&M University-Corpus Christi & the Conrad Blucher Institute

<b>Coordination</b>				
Philippe Tissot	TAMU-CC-CBI	10% (C/S Blucher)	\$6,650	Financial management of projects
Chris Bird	TAMU-CC-LSCI	Course buyout from the university (25%) – C/S CLSE, + 25% from joint funding	\$34,802	Day to day management of the task force, COVID19 scenarios & overall modeling coordination, press briefings and advising, building of scenarios matching present and potential measures with model capabilities
Davey Edwards	TAMU-CC-CBI	28.13%	\$19,207	Day to day management of the information pipelines, dashboard, mapping, including communication with hospitals and research into cell phone data
Steve Viera	City of Corpus Christi	(City funded)		Coordination on city side
Dan McGinn	City of Corpus Christi	(City funded)		Coordination on city side
Keren Costanzo	City of Corpus Christi	(City funded)		Coordination on city side, including working directly on healthcare information pipeline
Gina Concannon	TAMU-CC-CBI	5% (C/S Blucher)	\$2,426	Documents review & messaging
<b>Modeling and Automation</b>				
Chris Bird	TAMU-CC-LSCI	(Accounted above)		
Lucy Huang	TAMU-CC-CBI	29.11% Fall	\$20,371	Run the CHIME model, additional research and review of epidemiological parameters and spread
Jason Selwyn	TAMU-CC-LSCI	PhD Student – 50% + tuition and fees (Imperial College model + overall	\$18,043	

## Exhibit A

		modeling) C/S RCO Ahmed		
Graduate student working with Chris (Luz)	TAMU-CC-LSCI Employee of genomic core lab (Bird)	Graduate student working (50% time 20 hrs/week x \$15/hr)	\$9,132	Operational runs for the model
Part time student working with Chris	TAMU-CC-LSCI URA working with Chris	Part time student working ~7 hours/week at \$13.85/hr	\$2,858	Extraction of Unicast Data –
Evan Krell	TAMU-CC-CSCI (King)	PhD Student – 50% Fall	\$18,196	Automation of the data pipelines including general model data updates, regional and local data
Scott King	TAMU-CC-CSCI	5% - automation and CS advising – C/S CLSE	\$4,626	Coordination of automation of the data pipelines, as well as new computational tasks and advising
<b>Healthcare Information Pipeline</b>				
Keren Costanzo		(City funded)		
Greg Buck	TAMU-CC-LSCI	5.63% (fall)	\$3,362	Advising regarding the microbiology and virus biology – review of model parameters
Meng Zhao	TAMU-CC-CONHS	5.63% (fall)	\$3,717	Advising regarding hospitals, epidemiology and related practices – review of model parameters
Jason Louis	TAMU-CC-CBI	28.12% (fall)	\$9,114	Gathering of healthcare pipeline and other information (hotel, water, TxDOT,...), maintenance of historical records and direct contact with data providers
Annette Rodriguez	Health District	(Health District funded)		Provides information, advice and feedback regarding all county health issues
Mike Mohat - Advisory	Driscoll	(Funded by Hospital)		Provides information for Driscoll Hospital and guidance and feedback for hospital needs and operation
Mike Simmons - Advisory	Spohn	(Funded by Hospital)		Provides information for the Spohn Hospital system and guidance and feedback for hospital needs and operation

## Exhibit A

Hilary Watt – Advisory	CBRAC	(Funded by CBRAC)		Provides information for the Coastal Bend hospitals and guidance and feedback for hospital needs and operation
<b>Dashboards, Maps and Messaging</b>				
Bryan Gillis	TAMU-CC-CBI	50% (C/S Blucher)	\$18,415	
Davey Edwards	TAMU-CC-CBI	(Accounted Above)		Described above
Audrey Garza (Edwards)	TAMU-CC-CBI	Hourly URA	\$7,306	Daily gathering and formatting of data for dashboards and models (CHIME)
		<b>Fall Project Total</b>	<b>\$178,226</b>	
<b>In Kind Resources</b>				
TAMU-CC Computational resources	TAMU--CC			
<b>Share of Funding</b>				
TAMU-CC			<b>\$67,561</b>	Cost shared by TAMU-CC with \$27,491 provided by the Conrad Blucher Institute, \$18,043 from R&I and \$22,026 from COSE
Health District			<b>\$110,664</b>	